CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

BRITISH COLUMBIA & ALASKA.—Statements made in Vancouver by an official of the company are to the effect that the route between Fort George, B. C., and Eastern Alaska will be selected this spring, and that the southern portion of the line from Lytton to Fort George will be graded this year.

BURR'S FERRY, BROWNDELL & CHESTER RY.—Several important extensions are planned. It is reported that the capital has been secured. J. H. Kerby, Houston, Tex., is Pres. and Gen. Mgr.

CANADIAN NORTHERN.—Plans have been announced at Ottawa showing the location of the route of the transcontinental line between Ottawa and Port Arthur. The new line will commence at Rideau Junction, where it will branch from the proposed Ottawa-Toronto line now being built; thence in a southwesterly direction and crossing the Ottawa River at Fitzroy Harbor, continuing along the Ottawa Valley on the Quebec Portage du Fort, where it returns to the Ontario side, and continues on through Pembroke to North Bay; thence it will pass up the Vermillion valley to Lake Nepigon and on to Port Arthur, connecting at the latter point with the present terminus of the Canadian Northern Railway proper. M. H. McLeod, Toronto, is Gen. Mgr.

CANADIAN PACIFIC RY.—Bids are being received for the construction of 30 miles of the Kootenay Central R. R., south from Godeln, B. C. J. G. Sullivan, Winnipeg, is Asst. Ch. Engr.

CHICAGO, ROCK ISLAND & PACIFIC RY.—This company, according to an announcement made recently, has assured itself of the shortest railway line between Kansas City and St. Paul. The St. Paul & Kansas City Short Line, recently organized as a subsidiary of the Rock Island, has, it is announced, acquired substantially all of the stocks and bonds outstanding of the St. Paul & Des Moines R. R., which operates a line from Des Moines to Mason City, Iowa. At the latter point connection is made with the Chicago-St. Paul line of the Rock Island, and it is proposed to construct a new line from Allerton, on the Chicago-Kansas City line, of the Rock Island, northerly to Carlisle, Iowa, near Des Moines. It is also said to have obtained the right to operate from there to Des Moines as a terminal. Speyer & Co., a New York banking firm, has purchased $10,000,000 of the new short line's first mortgage 4½% bonds.

GREAT NORTHERN RY.—J. J. Hill, Chn. of the Board of Directors, has assured a deputation of Winnipeg business men that the Midland Ry. (of which he is President) will not, as reported, join with the Canadian Northern and Grand Trunk Pacific Rys. in the use of the Union Depot at Winnipeg, but will build its own terminal on Paulin St., between Ross and Pacific Aves., upon property purchased some time ago for this purpose. Mr. Hill states work will be commenced this spring, and it is expected the expenditure will reach $1,000,000.

All trains on the Cascade division running into Vancouver will be drawn by locomotives using oil for fuel from June 1 on, according to a statement made in Vancouver by officials of the company.

LOUISVILLE & NASHVILLE R. R.—This company, according to press reports, has made arrangements with the Chicago, Burlington & Quincy R. R. whereby the road from Nashville, Ill., to Belleville, Ill., will be double-tracked.

MEMPHIS, DALLAS & GULF R. R. CO.—We are officially advised that the contract for the construction of the Memphis, Paris & Gulf Ry. was not let to the Ware Construction Co., St. Louis, as stated Feb. 16. The Memphis, Dallas & Gulf R. R. Co. was formerly known as the Memphis, Paris & Gulf Ry. Surveys are now being made, having the same general route as that adopted by the old company. A. M. Van Auken, Nashville, Ark., is Ch. Engr.

MIDLAND VALLEY R. R.—This company is extending its line from Arkansas City, Kan., to Wichita, Kan., a distance of 55 miles. The Wichita & Midland Valley R. R. Co., which is building this line, will be leased to the Midland Valley R. R. The County Fair Grounds, in the central part of Wichita, of about 30 acres, has been purchased for terminal yards and facilities. The city of Wichita and the counties through which the ney line runs voted, on Feb. 14, $127,000 county bonds, being the full legal amount of county railroad aid bonds. C. Kaighn, Muskogee, Okla., is Ch. Engr.

NEVADA NORTHERN RY. CO.—An extension is planned from Ely, Nev., to Tooele, a mining center. Several prominent mining men, including the Cole-Ryan interests, are interested in the project. S. W. Eccles, 165 Broadway, New York, N. Y., is Pres., and T. F. Duddleston, East Ely, Nev., Supt.

NEW YORK, NEW HAVEN & HARTFORD R. R.—Pres. Charles S. Mellen, of this company and the Boston & Maine R. R., recently stated that parties in the interest of the Vermont Valley R. R. Co. have acquired 23,530½ preferred shares of the Rutland R. R. Co. from the New York Central. The object of the purchase, according to Mr. Mellen's statement, is the acquirement, in the interest of the Boston & Maine, of a route to Burlington and Montreal, by the way of the Rutland road. The stock acquired is just one-half of that owned by the New York Central. Mr. Mellen's statement further says: "The conditions heretofore surrounding the use, by the Boston & Maine, of one of its principal routes to Montreal, have latterly become such it was not deemed advisable to be further dependent upon their continuance. The acquisition of this interest extends the line of the Boston & Maine practically to the Great Lakes, at Ogdensburg, and by a connection with steamboat lines controlled by the Rutland R. R., operating on the lakes, to Chicago and the West, thus enabling the Boston & Maine to assure to the port of Boston a larger percentage of the grain-carrying trade. This transaction also enables the Boston & Maine to connect at another point, and with a long haul upon its own line, with the Canadian grain-carrying roads, assuring more permanently a participation in the export grain business of those roads by way of Boston. The lines of the Boston & Maine via Rutland are complementary and supplementary one to the other, and in no sense competitive, and the service by the two lines should be augmented and promoted as a result."

PACIFIC & PEACE RIVER RY.—This company has been granted a charter by Parliament. The incorporators are a number of French investors, who propose to build 408 miles of line from Belle Coola, B. C., to Dunvegan, in the Peace River district. J. A. Ritchie, Ottawa, is Solicitor.

PENNSYLVANIA R. R.—This company is planning a connecting link between North Girard, Pa., and Brocton, N. Y., about 60 miles. This line will skirt the shore of Lake Erie, and will shorten the route from Buffalo to Pittsburg by 33.3 miles. J. R. McGraw, Buffalo, N. Y., is Div. Engr.

QUEBEC & SAGUENAY RY.—A new line, to extend from the present terminus to ten miles east of Murray Bay, a distance of 65 miles. Arthur H. N. Bruce, Ottawa, has been appointed Ch. Engr., with office at Quebec.

SOUTHERN PACIFIC RY.—Announcement has been made that a line will be constructed from Colusa to Hamilton City, Cal., a distance of about 37 miles.

TEXAS.—The Railroad Committee of the Seminole Commercial Club closed a final contract with **FRED A. BEALL**, of New York, with temporary office at the Westbrook, Fort Worth, by the terms of which he is to build his proposed railroad from Kerrville, Tex., to Tucumcarri, N. Mex., through Seminole. This road will cross the Texas & Pacific at Odessa, and from there north through Shafter, Lake and Seminole, and will cross the Santa Fe at or near Texico.

TEXAS STATE R. R.—Governor Colquitt has sent a special message to the Legislature in which he urges that immediate provision be made for disposing of the Texas State R. R., which runs between Rusk and Palestine, 33½ miles. It was originally planned to extend this road across the State, a distance of about 300 miles, but government ownership having proved unprofitable, the whole plan is abandoned. Governor Colquitt says in his message: "The Texas State R. R. is a burden and a failure, and calls for immediate legislative consideration. It has cost something over $500,000, and is also in a bad state of repair and is operated at a loss of several thousand dollars per month. I recommend that the Legislature make speedy provision for the sale or lease of this property. The report of the Railroad Commission's auditor shows that the State Railroad has been operated at a loss, the deficit from operation to the date of his report being $16,500." T. T. Clark, Palestine, Tex., is Supt.

WEST VIRGINIA.—A charter has been granted the Rowlesburg & Southern R. R. Co. to build a railroad from Rowlesburg, W. Va., up the valley of the Cleat River to Parsons, W. Va., about 20 miles. The incorporators are W. H. Gillespie, C. C. Stitzinger, A. E. Stitzinger and J. E. Stitzinger, all of New Castle, Pa.

ELECTRIC RAILWAYS.

SCITUATE CENTER, MASS.—Local residents, it is reported, are considering a plan to build an electric railway from Scituate Harbor and Rockland, about ten miles.

MOUNT VERNON, N. Y.—F. A. Stratton, Pres. of Hudson River & Eastern Traction Co., Ossining, has applied to the Public Service Board for permission to construct a trolley line from Sherman Park through Hawthorne and Valhalla to White Plains.

NEW ROCHELLE, N. Y.—The Common Council has given permission to the Westchester Electric R. R. Co. to double track its line in North Ave., between Huguenot St. and Mayflower Ave. J. A. Young, New Rochelle, N. Y., is Receiver.

ROCHESTER, N. Y.—The new owners of the Buffalo, Lockport & Rochester Ry. Co., are planning improvements which will include the double-tracking of five miles from the Rochester city line to Gillette Station. A contract for rails has been let to the **LACKAWANNA STEEL CO.** It is reported this work wil be finished by July.

CALDWELL, N. J.—The Pine Brook Electric Ry. Co., newly organized by Dr. Alexander Dallis, W. L. Kerris and Edward F. Duffy, will build a storage battery street car line connecting Caldwell, West Caldwell, Pine Brook, Parsippany and Denville. An order for six batteries has been placed with the Federal Storage Battery Co., other orders will follow. The contract prices are $10,000 for two cars and $6,500 for four cars. The building of the road will be started at once, it is expected. There is no overhead construction required, and a light rail will be used. The estimated cost of construction per mile is $18,000.

LAMBERTVILLE, N. J.—A franchise has been granted to the New Jersey & Pennsylvania Traction Co., to extend its line.

NORTH PATERSON, N. J.—It is reported that at a recent meeting of citizens, a plan was considered to build a trolley line from North Paterson to Midland Park and Ridgewood. H. J. Wostbrock, Aley Wortendyke, and Robert H. Wortendyke are interested.

RINGOES, N. J.—A movement has been started by men connected with Philadelphia and Trenton trolley interests to construct a local and high speed line from Trenton to the northern part of the state, connecting with the partly finished trans-New Jersey line out of New York City.

The proposed line will connect with Trenton lines at Lambertville, Hunterdon County, and will run northward to Ringoes, Flemington, Hamden, Clinton, High Bridge, Califon, Middle Valley, German Valley, Naughright, Bartley, Flanders and Ledgerwood, where connection will be made with the Morris County link of the trans-State line. The route may also be extended to reach Chester, Mendham, and Morristown.

CAMPBELLTOWN, PA.—The Lebanon & Campbelltown St. Ry. has applied for a franchise to build a railway here. S. M. Hershey is interested.

POTTSTOWN, PA.—A deal has been closed through C. Taylor Leland, Secy. of the constructing company, 2215 Land Title Bldg., Philadelphia, that will connect Pottstown, Royersford, Spring City and Phoenixville. This will be accomplished through the Pottstown & Reading St. Ry. Co., which now operates a trolley line between Pottstown and Sanatoga, taking over the line owned by the Montgomery & Chester Electric Ry. Co., operating between Spring City and Phoenixville. The link between Pottstown and Spring City will be built in the Spring, and will connect with the Pottstown & Reading Co.'s tracks at Sanatoga. The latter's road is the same gage as that of the Spring City and Phoenixville.

QUAKERTOWN, PA.—A force of engineers are at work making a final survey and purchasing rights of way for an air line on the Philadelphia division of the Lehigh Valley Transit Co., between Quakertown and a point one mile south of Sellersville. Under the plans of the engineers, this company will cease using the line of the Quakertown Traction Co., from Quakertown to Perkasie, but also a section of the old Inland Traction Co. between Perkasie to Sellersville. Contracts were entered into with the Philadelphia & Reading Ry. for an under-pass at Perkasie, and also with Perkasie for an overhead bridge at Ninth St. This air line extension will be eight miles, with a maximum grade of 2%. The estimated cost of the line between Perkasie and Quakertown is $182,000, and the total improvements will be $278,000.

FROSTBURG, MD.—The Pennsylvania & Maryland St. Ry. Co. has obtained permission to cross the Salisbury branch of the Baltimore & Ohio R. R. A survey has been completed for a 13-mile extension to Frostburg, Md., to connect with the Cumberland and Westernport Electric Ry. Noted Feb. 16 under Frostburg, Pa.

ROCKVILLE, MD.—The Montgomery County Commissioners have granted to the Washington, Westminster and Gettysburg R. R. Co. a permit to construct a railroad through Montgomery county and to cross the public roads wherever necessary, all crossings, wherever practicable, be carried overhead or underground. The road will extend from below Four Corners to Burnt Mills, to Colesville, to Sandy Springs. Surveys have been completed and the work of grading is started.

BARCROFT, VA.—An application for a charter has been made by the Washington-Barcroft Traction & Power Co., which has been recently organized with a capital of $25,000. It is the purpose of this company to build a line from the south end of the government bridge to Bailey's crossroads, Fairfax County, about seven miles. F. C. Handy, Barcroft, is Pres., W. W. Wright, Barcroft, is Vice-Pres., and C. P. Munson, Arlington, is Secy.

WINSTON-SALEM, N. C.—The contract for the construction of the traction line from Winston-Salem, N. C., to Floyd, Va., has been awarded by the North Carolina Traction Co. to the **PROPST CONSTRUCTION CO., INC.**, Charlotte, N. C. The motive power will be gasoline. Noted Jan. 26.

SPARTANBURG, S. C.—H. H. Prince, Greenville, is promoting an electric railway between Spartanburg and Greenville. It is reported engineers are locating the route and construction work will begin soon.

GALLIPOLIS, OHIO.—The Gallia and Meigs Electric R. R. Co., has been incorporated with a capital stock of $50,000 to construct and operate an electric line from Gallipolis to Middleport, Ohio. The incorporators are F. W. Jackson, S. H. Eagle, J. S. Howard, J. V. Lee and E. D. Davis.

YOUNGSTOWN, OHIO.—A franchise, it is reported, has been granted to the Lake Erie & Youngstown Ry. to build a line from Conneaut to Youngstown by way of Andover.

LA SALLE, ILL.—The Chicago, Ottawa & Peoria Ry. Co., La Salle, will soon award contracts, it is stated, for grading, also concrete bridge construction work in connection with an extension of about 25 miles connecting Morris and Joliet. F. E. Fisher, Joliet, Ill., is in charge of the work.

SUPERIOR, WIS.—The Duluth-Superior Traction Co. has made plans for the expenditure of $400,000 on its Superior-Duluth properties. The principal work will be the relaying of several miles of track in this city. Herbert Warren, 2631 West Superior St., Duluth, Minn., is Gen. Mgr.

HELENA, MONT.—The Helena Light & Ry. Co. has adopted a resolution authorizing the construction of a double track line to the Montana State fair grounds. J. H. White, Helena, is Gen. Mgr.

SAN ANTONIO, TEX.—J. A. Logwood of San Antonio and associates have sold their interurban electric railway under construction between San Antonio and San Jose, to A. D. Powers, who will complete the line.

SAN ANTONIO, TEX.—At a recent joint meeting of the directors of the San Antonio Gas and Electric Co., and the San Antonio Traction Co., both owned by the same interests, a budget of $250,000 for improvements to the plants and system of the companies was adopted. It is stated that the electric lighting department will be improved at a cost of $50,000, exclusive of the reconstruction of the power plant, estimated cost $35,000. Boilers and machinery will be installed in the gas plant and other improvements will be made to that department costing $58,000. Nearly $100,000 will be expended in double-tracking lines of the traction company.

WACO, TEX.—A franchise has been secured by the Citizens Ry. to build a railway in North Ninth St.

SPOKANE, WASH.—The Council has passed an ordinance granting the Spokane & Inland Empire R. R. Co. the right to build and operate a single or double track electric railway system upon certain streets here. A. M. Lupfer, Terminal Bldg., Spokane, Wash., is Ch. Engr.

SPOKANE, WASH.—Surveys have been made and right of way secured, it is stated, and grading work is under way on a line to be built by the Spokane Northern Electric Ry. from here to the top of Mt. Carlton.

LOS ANGELES, CAL.—The Los Angeles Pacific Co. intends to operate a new electric line from Los Angeles to Santa Monica, it is reported. This company has leased from the Southern Pacific that portion of the latter's steam road extending west from Clement Junction to the city limits, and requests permission to operate it by electricity. Vice-Pres., Paul Shoup, 431 So. Hill St., Los Angeles, is in charge.

OTTAWA, ONT.—An application has been made for a franchise by the Morrisburg & Ottawa Electric Ry., Ottawa, to build a line in Main St., making a connection with the Ottawa St. Ry. C. M. Willard, Morewood, Ont., is Pres.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

HOWARD, R. I.—Bids will be received by Charles Potter, Secy., of the Board of State Charities and Corrections, State House, Providence, R. I., until March 6 for the installation of the heating and ventilating systems in the Reception Hospital, State Farm, Howard, R. I. Plans and specifications may be seen at the office of Martin & Hall, Archs., 806 Union Trust Co. Bldg., Providence, R. I.

BROCKPORT, N. Y.—An additional stationary transformer of 600 HP. capacity in the Brockport sub-station of the Buffalo, Lockport and Rochester Ry. Co. J. H. Cain, Rochester, N. Y., is Supt.

FORT H. G. WRIGHT (New London, Conn., post-office), N. Y.—Bids will be received until March 7 by Capt. F. T. Arnold, Constr. Q. M., U. S. A., New London, for installing hot water heating, electric wiring and fixtures at Fort H. G. Wright.

GOLAH (Avon post-office), N. Y.—The Livingston-Niagara Power Co., has awarded contract for an electric power transformer station, 30x40 ft., and 35 ft. high at Golah, N. Y. to **ALEXANDER SHUMWAY & UTZ CO.**, Rochester, N. Y.

*POUGHKEEPSIE, N. Y.—Bids are asked by the State Commission in Lunacy until March 15, for the installation of an electric generating plant, feeders and transformer service, outside lighting, motors and power house lighting at the Hudson River State Hospital at Poughkeepsie, N. Y. T. E. McGarr is Secy. of Comn., F. B. Ware is State Arch.

YONKERS, N. Y.—Bids for furnishing and providing lamps, gas, materials and work for lighting, extinguishing, cleaning, repairing, regulating and maintaining the public lights, will be received by James V. Mahony, Secy., Bd. Contract and Supply, until March 6.

WASHINGTON, D. C.—Bids will be received until March 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for furnishing and installing lighting fixtures in the government buildings at Ashtabula, Ohio.; Brainerd, Minn.; Centralia, Ill.; Dayton, Ohio; Lexington, Ky.; Lima, Ohio; Lincoln, Ill., and Detroit, Mich. Plans and specifications may be obtained at the Treasury Dept.

CHASE CITY, VA.—The city has awarded a contract to JOHN L. LIVERS, Grottoes, Va., for construction of an electric-light plant. Estimated cost, $20,000. J. Kent White, Chase City, Va., is Engr.

AIKEN, S. C.—Bids will be received at the office of the Supervising Arch., Treasury Dept., Washington, D. C., until March 21, for supplying and installing lighting fixtures in the U. S. buildings at Aiken, S. C., Cleveland, Tenn.; Concord, N. C.; Griffin, Ga.; High Point, N. C.; Newman, Ga.; Rome, Ga.; Catlettsburg, Ky.; Danville, Va.; and Frankfort, Ky.

ATLANTA, GA.—A plan is being considered to install a lighting system in Grant Park. This will include incandescent lamps on ornamental lamp standards.

EUFAULA, ALA.—The Eufaula Gas, Electric Light & Power Co., Eufaula, Ala., is in the market for a complete electric-light plant, including horizontal-tubular and water tube boilers; four-valve and Corliss engines; 75 to 250-HP. generators, 3-phase 60-cycle 2300-volt and a switchboard.

NEWTON, MISS.—The Mayor and Board of Aldermen, it is reported, have passed an ordinance to issue bonds for $11,000 for the construction of an electric light plant.

BARBERTON, OHIO.—A petition will be presented, it is reported, to the city council asking them to authorize the installation of proper equipment at the pumping station to make it a municipal lighting plant.

GREENFIELD, OHIO.—The Board of Public Works advertised for bids for the reconstruction of the electric light system, which will mean an expenditure of $20,000.

MARIETTA, OHIO.—The Athens Heat, Light & Power Co., of Marietta has filed papers with the Secy. of State, increasing its capital stock from $25,000 to $50,000 for the purpose of making additions to its power plant.

CHESTERTON, IND.—The Northern Indiana Gas & Electric Co., has awarded the contract for two 3850-KVA. steam turbines to the WESTINGHOUSE MACHINE CO. of Pittsburgh, Pa. The turbines will be connected to a 750-KVA., 13,200-volt, 3-phase, 60-cycle Westinghouse generator and will operate on a steam pressure of 75 lbs. and will exhaust into a vacuum of 28-in.

WARSAW, IND.—Improvements will be made, it is stated to the system of the Winona Electric Light & Water Co. This will include the installation of new pumps.

SANDOVAL, ILL.—It is reported, the installation of a municipal electric light plant is being considered. R. R. McCall and W. J. McNally are interested.

TOLONO, ILL.—The Chase Engine & Mfg. Co., has taken over the local electric light plant, it is reported, and it is thought transmission lines will be erected to Philo, Pesotum and Ladorus.

BARABOO, WIS.—It is stated that the municipal electric light plant under consideration will cost $45,000. There is another plan on foot to buy current from the Southern Wisconsin Power Co., involving the erection of a sub-station and construction of a pole system costing $30,000. Prevailing sentiment is in favor of municipal plant.

ADAIR, IOWA.—Bids will be received at the office of the Town Clk., until 10 a. m., March 10, for the construction of the water and lighting system, including the furnishing and installing equipment, material and supplies required in connection with these improvements, will be let as one contract. The following is an approximate list of requirements: brick power station and steel stack; two 60-in. × 16-in. tubular boilers and accessories; a 50 KW. high speed generating unit; a 25 KW. vertical marine engine direct connected generating unit; and switchboard, heater, feed pumps and piping. Plans and specifications are on file in the office of the Town Clk., Adair, Iowa, and at the office of The W. K. Palmer Co., Engrs., 717-720 Dwight Bldg., Kansas City, Mo.

MINNEAPOLIS, MINN.—The City Council is preparing plans for furnishing light and heat in the new Hopewell Hospital, light for Camden Park and power for the Northeast pumping station from the crematory plant. The committee will purchase a generator, costing $3,000, to furnish service to the Hopewell Hospital. Application has been made to the State Legislature for authority to issue $100,000 of bonds for improvements to the Northeast pumping station plant.

MINNEAPOLIS, MINN.—The principal equipment for the new power station of The Minneapolis General Electric Co., to replace the station destroyed by fire Jan. 7, has been ordered by the Stone & Webster Engineering Corporation. The following contracts have been awarded: two 6,000 KW. turbo-alternating generator to the ALLIS-CHALMERS CO., Milwaukee, Wis. Ten 600-HP. boilers to the BABCOCK & WILCOX CO., 85 Liberty St., N. Y. Traveling cranes to the CLEVELAND CRANE & ENGINEERING CO., Cleveland, Ohio.

FAIRBURY, NEB.—See item under Water-Supply—Irrigation.

*PLATTSMOUTH, NEB.—Bids will be received until March 20, by James Knox Taylor, Superv. Arch., for a conduit and wiring system and, in a seperate contract, low-pressure heating in the U. S. Post Office at Plattsmouth, Neb.

CHILLICOTHE, MO.—A bond issue, it is stated, has been made for $50,000 for the construction of a municipal electric light plant here. The Fuller-Coult Co., Chemical Bldg., St. Louis, Mo., prepared the plans.

FORSYTH, MO.—A plan is being considered by the Ozark Power & Water Co., recently organized to construct a hydroelectric power plant on the White River about three miles from here. It is understood 2500-HP. will be developed. Estimated cost, about $400,000.

MONTICELLO, ARK.—Bids will be received at Monticello, Ark., until March 15, for installation of electric-light plant to replace one destroyed by fire. The proposed plant will contain two 72-in. return-tubular boilers, one 75 and one 100-KW. direct-connected alternating generators, with switchboards, wiring, piping, fittings, boiler-feed pumps, feed-water heater and all appurtenances, to complete electric plant, less building. Plans and specifications may be seen at the office of Commissioners at Monticello. N. C. Roe, is Chr. of Comm.

BROWNWOOD, TEX.—W. M. Baugh will build a dam across Jim Ned Bayou near Brownwood and will construct an irrigation pumping plant.

DALLAS, TEX.—The municipal commission of Dallas has adopted an ordinance granting The Texas Co., the right to extend its gas distributing service in this city. The new pipe lines will cover a number of streets.

LOCKHART, TEX.—The Lockhart Water Works & Power Co., is installing a new ice manufacturing plant at Lockhart. New motors and other equipment will be needed.

SAN MARCOS, TEX.—The San Marcos Utilities Co., has been granted a renewal of its electric light franchise by the City Council. Announcement is made that $10,000 will be spent, increasing the capacity of the plant. It will give a 24-hour service and will make provisions for furnishing power for other purposes.

WACO, TEX.—The issue of $250,000 bonds have been voted, for the erection of a municipal electric light and power plant. Plans will be prepared and construction work started as soon as possible. Noted Jan. 12.

DENVER, COLO.—The Denver Gas & Electric Co., it is reported, are preparing plans to improve its system, which will include the installation of a lighting system for the boulevard and extension of gas mains; also ornamental lamp standards for several boulevard streets. This work will cost about $400,000 and will be under contract with the city. W. J. Barker is Gen. Supt.

OGDEN, UTAH.—It is reported that H. A. Strauss, Vice-Pres. & Ch. Engr., of the Falkenau Electrical Construction Co., Chicago, Ill., has been appointed Consult. Engr., of the Merchants' Light & Power Co., of Ogden, Utah, to design a complete system of electric lighting and power for this city. The company has recently been granted broad and general franchises covering the entire city of Ogden, and has obtained the city contract for arc lighting.

SEATTLE, WASH.—The City Council has passed an ordinance providing for the improvement of a portion of Third Ave., by the construction of water systems and cluster lights according to plans prepared and filed in the Dept. of Public Works.

TACOMA, WASH.—We are officially advised that the contract for the Nisqually Power Plant has been awarded to HANS PEDERSON, Seattle, Wash., at $1,074,918 for the entire work. The contract for Section 5 for four 8,000-HP. Francis type, single discharge turbin, 420-head, each direct connected to a 5,000 KVA, 6,600 volt, 60-cycle, 3-phase generator was awarded to ALLIS CHALMERS CO., of Milwaukee, Wis., Hamilton F. Gronen is Chf. Engr.

EL CENTRO, CAL.—The Holton Power Co., has awarded the contract for the construction of a gas producer plant, estimated cost $250,000 to ALLIS-CHALMERS CO., Milwaukee, Wis. Noted Jan. 26.

NEWPORT, CAL.—A resolution has been passed by the City Council providing for the construction of a municipal electric light plant. Bonds for $55,000 will be issued. L. S. Wilkinson is City Clk.

PORTOLA, CAL.—An electric light plant will be installed here as soon as the weather permits. This company is incorporated. C. H. Gardner is Pres., D. L. Tyre is Vice-Pres. and Gen. Mgr.

SANTA PAULA, CAL.—The Ventura County Power Co., which controls the various light, water and gas plants of the county, has offered to sell the water-works and supply of Santa Paula to the city for $104,230. This includes the water, mains and the entire distributing system.

TURLOCK, CAL.—The La Grange Water & Power Co., will install a street electric lighting system here. A Scott, La Grange, Cal., is Supt.

FORT WILLIAM, ONT.—City officials are discussing with Port Arthur authorities the advisability of erecting a municipal gas plant to serve both cities. J. J. Carrick, Port Arthur, Ont., is interested.

HAMILTON, ONT.—Applications accompanied by qualifications and testimonials will be received by S. H. Kent, City Clk., until March 15, from Electrical Engineers, for the purpose of preparing estimates of the cost, plans and specifications for a municipal electric power and light system for this city.

CALGARY, ALTA.—Bids will be received until noon, March 22 by W. D. Spence, City Clk., for the supply of one 1,500-KW. turbo-generator with condensor; also three 1,000 KVA. single transformers 12,000 to 2,300 volts with switch gear, etc.

PINCHER CREEK, ALTA.—The by-law authorizing the authorities to purchase the private lighting plant has been passed.

SIERRA JUAREZ, MEX.—The Compania Minera de Natividad y Anexas will install a hydroelectric plant of 1,000-HP., at its mines near Sierra Juarez.

BRIDGES.

*(*Denotes that this work is advertised in Engineering News.)*

*ELLICOTT, N. Y.—Bids will be received by Samuel Ely, Town Supt., in the Village of Falconer, until 2 p. m., March 15, for constructing an iron bridge, 20 ft. wide, having a span of 100 ft. over the Cassadaga Creek, on the road leading from Falconer to Kennedy, and two concrete bridges, each 52 ft. wide on South Work St., in said Village of Falconer, one over the race leading to the factory of the American Manufacturing Concern, having a span of 30 ft., and the other over the Outlet of Chautauqua Lake, having two spans of 35 ft. each. Plans and specifications are on file with the Town Clerk.

FULTON, N. Y.—The city is considering the construction of a concrete bridge, 50 ft. wide, with steel reinforcements, to cost $170,000. George W. Hackett is City Engr. (This item was erroneously noted on Feb. 9, under Yonkers, N. Y.)

YONKERS, N. Y.—The cities of Yonkers and Mount Vernon have agreed to share the cost of constructing a new bridge over the Bronx River at the city line. S. L. Cooper, City Engr. of Yonkers, has been directed to prepare plans.

ALTOONA, PA.—Plans are being prepared by the H. G. Hinkle Co., Engrs. for constructing two concrete bridges, one across the Jamaica River between Hollidaysburg and Gaysport, another across Brush Run at South Lakemont.

HARRISBURG, PA.—An ordinance has been passed authorizing the construction of a bridge over the tracks and right-of-way of the Philadelphia & Reading Ry. Co. at 13th St. The bridge is to be constructed at the joint expense of the city and the railroad company and will cost approximately $35,000.

KITTANNING, PA.—The city is considering the construction of a bridge over Rough Run, near Winfield. Plans for the structure have already been prepared.

PHILADELPHIA, PA.—Bids will be received by George R. Stearns, Dir. Pub. Ser., until noon, March 9, for widening and improving the Chestnut St. bridge over the Schuylkill River.

PITTSBURG, PA.—A bridge one mile long, over the Ohio River, from the lower Northside to McKees Rocks, to cost about $1,000,000, is being considered by the County Commissioners. R. J. Cunningham is County Comptroller.

WASHINGTON, D. C.—Plans have been approved for the construction of a bridge over Rock Creek at Q St., to cost $275,000. The bridge will be 360 ft. long, with four large arches, and will have a 70-ft. roadway, two 10-ft. sidewalks, and a 30-ft. driveway. The approaches will be 200 ft. long.

COURTLAND, VA.—Bids will be received by P. St. J. Wilson, State Highway Comr., at Courtland, until noon, March 4, for constructing the following bridges: A bridge over Blackwater River in Southampton County, 165 ft. long, with 10 ft. roadway, the substructure to be of concrete and cylinder piers on pile foundation; a bridge over the H. W. Channel, Nottoway River, in Southampton County, 119 ft. long, with 12 ft. roadway, the substructure to be of concrete pile foundation; a bridge over Buckhorn Creek, in Southampton County, 58 1-3 ft. long, with 12 ft. roadway, substructure to be of concrete; a bridge over the H. W. channel, Nottoway River, in Southampton County, 70 ft. long, with 12 ft. roadway, substructure to be of concrete, pile foundations; a bridge over Blunts Mill Creek, in Southampton County, 29¼ ft. long with 12 ft. roadway, substructure to be of concrete; a bridge over Three Creeks, in Southampton County, 157 ft. long, with 12 ft. roadway, substructure to be of concrete, abutments, pedestals and piers. Blue prints of plans may be secured from Childrey, Sunday Co., Richmond Va., at $1.02 for all.

NORFOLK, VA.—The City Council is considering the construction of a steel bridge across the Eastern Branch, connecting Norfolk and Berkley, at a cost of $40,000. W. T. Brooke is City Engr.

RICHMOND, VA.—The Richmond & Henrico Ry Co. has awarded a contract to the VIRGINIA BRIDGE AND IRON CO., of Roanoke, Va., for the steel work on a viaduct, 1,250 ft. long, and costing $150,000. Plans for the structure were prepared by F. W. Scarboro, of Richmond.

SPOTTSYLVANIA, VA.—Bids will be received by the Board of Public Works, W. A. Harris, Secy., until March 6, for constructing four steel bridges with concrete headwalls.

KENOVA, W. VA.—An appropriation of $250,000 has just been authorized by the Norfolk & Western R. R. Co., to cover the cost of converting the bridge at Kenova into a double-track bridge. The contract for furnishing the steel for this bridge has been awarded to the AMERICAN BRIDGE CO., of Pittsburg, Pa., and 30 Church St., New York, as noted in our issue of Feb. 9.

ELIZABETHTOWN, KY.—A bridge to cost in the neighborhood of $60,000 will be erected at a point between the Illinois Central and Henderson Route bridges, over the Salt River.

CAMBRIDGE, OHIO.—Bids will be received by W. D. Deselm, Audr. Guernsey County, until noon, March 21, for building two stone piers and two stone abutments for a bridge near Derwent, in Valley Township. Plans and specifications are on file with the County Auditor.

CLEVELAND, OHIO.—Bids will be received by the Commissioner of Cuyahoga County until 11 a. m., March 22, for bridge and road work. John F. Goldenbogen is Clk. Comrs.

COSHOCTON, OHIO.—Bids will be received by the Commissioners of Coshocton County until 10 a. m., March 21, for bridge work to include erection of a 120-ft. pin-connected Pratt truss bridge to replace the Spurgeon bridge across Walhonding River, two miles from Nichols Siding; removal of old approach and construction of new; repairing and painting a 15-ft. span steel bridge at Fresno. Frank Mowrey is County Audr.

PORT CLINTON, OHIO.—Bids will soon be asked by the County Commissioners for the construction of a draw bridge over the Portage River, to cost $15,000. The piers of the structure will be of solid concrete.

TOLEDO, OHIO.—Press reports are to the effect that the Pennsylvania R. R. Co. is planning to build a new steel bridge across the Maumee River, to be nearly twice as large as the present structure, and to carry double tracks. Plans and specifications for the work are now being prepared and the work will be started early in the spring. H. R. Leonard, Philadelphia, Pa., is Engr. Bridges and Bldgs.

WASHINGTON C. H., OHIO.—Five new bridges are to be built in Fayette County at an estimated cost of $25,000. Bids for the work will be asked soon.

YOUNGSTOWN, OHIO.—Press advices are to the effect that a contract will soon be awarded for the construction of a steel bridge 400 ft. long to span the lake of the Commercial Water Co., along Seceeder's Corner Road in Coitsville Township. Frank [illegible] is City Engr. of Youngstown.

GREENFIELD, IND.—Bids will be received by the Commissioners of Hancock County until 10 a. m., March 20, for the construction of four bridges. C. H. Troy is County Audr.

MARTINSVILLE, IND.—Bids will be received by J. S. Whittaker, Audr. Morgan County, until 2 p. m., March 7, for constructing a number of concrete arches.

SOUTH BEND, IND.—The Board of Public Works is planning to build a new bridge across the river at Washington Ave. The condemnation of land for the bridge is in litigation.

TERRE HAUTE, IND.—Bids will be received by the Commissioners of Vigo County until March 4, for constructing a 65-ft. flat arch bridge, with 14 ft. clear roadway. The bridge is to be of reinforced concrete.

WINCHESTER, IND.—Bids will be received by the Commissioners of Randolph County until 10 a. m., March 11, for the construction of a concrete steel, concrete girder, steel truss and Portland cement bridges, twelve in all. H. F. Wood, County Audr.

BARAGA, MICH.—Baraga Township will build a steel bridge 163 ft. long, to span the Sturgeon River, at a cost of $5,200.

REPUBLIC, MICH.—Bids, accompanied by detail plans and specifications, are wanted for building a bridge over the Michigamme River at Republic. The bridge is to be of reinforced concrete or steel truss with concrete floor. General specifications and cross-section of the river may be seen at the office of W. A. Siebenthal, Superv. Republic Township, or at the office of V. S. Hillyer, Ishpeming, Mich.

SAGINAW, MICH.—The City is considering the construction of a bridge 600 ft. long, to cost $85,000. Plans and estimates are being prepared by R. W. Roberts, City Engr.

YPSILANTI, MICH.—Bids will be received by the city, Frank Joslin, City Clk., until March 15, for the construction of a single span, reinforced concrete bridge at Congress St. Benjamin Douglas, Ford Bldg., Detroit, Mich., is Engr.

MILWAUKEE, WIS.—A temporary pontoon bridge, to cost $5,000, will be constructed across the Milwaukee River at Oneida St. while the bascule bridge is being built. Charles J. Poetsch is City Engr.

*CEDAR RAPIDS, IOWA.—Bids will be received by L. J. Storey, City Clk., until 10 a. m., March 15, for the construction of a six-span concrete bridge on Third Ave., over Cedar River and the re-erection of present Third Ave. bridge on Eighth Ave., at an estimated cost of $150,000.

DULUTH, MINN.—Bids will soon be asked for the erection of four bridges, two of steel construction with concrete decking, and two of all concrete construction. H. J. Hammerbeck is Chn. Com. Roads and Bridges.

GRASS LAKE, MINN.—Bids will be received by the Town Board, Peter Backlund, Chn., until March 10, for constructing a 50 to 75-ft. span steel bridge across Rice Creek, three miles west of the town of Grasston.

HALLOCK, MINN.—We are officially advised that the contract for constructing 15 corrugated steel culverts with concrete bulkhead and five small corrugated steel culverts without bulkhead, across judicial ditch No. 32; also seven corrugated steel culverts with concrete bulkheads and twelve small corrugated steel culverts with bulkheads, across judicial ditch No. 31, has been awarded to the NORTH DAKOTA METAL CULVERT CO., Fargo, N. Dak. Noted on Feb. 9.

LAWRENCE, KAN.—Bids will be received at the office of W. R. Green, Clk. of Douglas County, until noon, March 11, for the construction and erection of a 70-ft. bridge in Marion Township, and furnishing extra beams for another bridge.

TOPEKA, KAN.—Bids will be received by the Board of County Commissioners at Topeka, for constructing an 80-ft. steel-span bridge across Mission Creek at Dover; also a 60-ft. steel-span bridge, with a 20-ft. approach of 6-in. steel I-beams, across Soldin Creek, near the State Reform School. F. B. Simms is Chn. of Bd.

GRAND ISLAND, NEB.—Bids will be received by the Board of Supervisors of Hall County until March 14, for constructing and repairing all steel, wooden, pile and truss bridges in the county for one year from March 29, 1911. G. E. Neumann is County Clk.

NEBRASKA CITY, NEB.—Bids will be received for the construction of bridges and concrete abutments and wings during the year 1911 by the Board of County Commissioners of Otoe County, at the office of A. P. Young, County Clk., until noon, March 9. Plans and specifications are on file with the County Clerk.

GRAND FORKS, N. DAK.—Bids will be received by W. H. Alexander, Audr. of Grand Forks County, until March 6, for constructing several bridges; the steel bridges to be 20 to 100-ft. span; the reinforced concrete, of 14 to 20-ft. span.

ROCKPORT, MO.—Bids will be received by the Board of Commissioners of Atchison County until March 7, for constructing two steel high truss bridges on steel foundations, across the new ditch now under construction. The bridges are to be 90 ft. long.

BURNET, TEX.—The Boards of County Commissioners of Llano and Burnet Counties will soon award the contract for the construction of a joint steel bridge across the Colorado River, connecting the two counties.

DALHART, TEX.—The Board of County Commissioners of Dallam County are considering the erection of several steel bridges.

MENARDVILLE, TEX.—The Board of Commissioners of Menard County have adopted plans for a new steel bridge that it will construct across the San Saba River near Menard at a cost of $20,000, bonds for which purpose have already been issued. The structure will be 1,121 ft. long.

WEATHERFORD, TEX.—The Chicago, Weatherford & Brazos Valley R. R. Co. has awarded the contract for the erection of all bridges and depot buildings upon its proposed line in Texas to J. W. YARBOROUGH, of Temple, Tex.

DENVER, COLO.—We are officially advised that bids for constructing a 100-ft. steel span with concrete pier and abutments over the Arkansas River near Orchard Grove in Pueblo County have been received as follows: Pueblo Bridge Co., $9,998; Midland Bridge Co., $10,149; Missouri Valley Bridge & Iron Co., $10,200. J. W. Johnson is Deputy State Engr. Noted on Feb. 9.

PHOENIX, ARIZ.—Two plans have been prepared by J. B. Girard, State Engr., Phoenix, for a reinforced-concrete bridge to be constructed near this city. One plan calls for a structure of the arch type, 150 ft. long, with eight spans, the other calls for ten spans.

ANACORTES, WASH.—Bids will be received at the office of County Commissioners of Skagit County, until March 7, for building a steel bridge with wooden approaches across the Skagit River, in sections 25 and 36, near Sedro Woolley. Plans are on file at the office of Bowerman & McCloy, Consult. Engrs., Central Bldg., Seattle, Wash.

PROSSER, WASH.—The Board of County Commissioners has voted to construct a two-span steel bridge across the Yakima River at Prosser. The old Rattlesnake bridge has been condemned by C. D. Walter, County Engr.

SHELTON, WASH.—Bids will be received by the Board of Commissioners of Mason County until March 6 for constructing a wooden trestle bridge on Weiss Road, according to plans and specifications on file with the Commissioners.

SPOKANE, WASH.—Bids for the construction of a concrete bridge over Latch Creek have been received as follows: C. F. Graff, Seattle, Wash., $42,900; J. E. Cunningham, Spokane, $43,900; O. H. Stratton, Spokane, $44,850; Spokane Concrete Co., $46,027; Alverson & Keaper, Spokane, $48,498; Boynton, Church & McCoy, Spokane, $52,000; International Contract Co., Seattle, $53,320. Morton MacCartney is City Engr.

WEST SALEM, ORE.—We are officially advised that the Salem, Falls City & Western Ry. Co., will construct 1,500 ft. steel bridge with a draw-span across the Willamette River near West Salem. S. B. Taylor is Chf. Engr.

CORONA, CAL.—The NEWTON CONSTRUCTION CO. has been awarded the contract for constructing the concrete piers on two bridges on the road from Ontario Ave. to Magnolia Ave.

LOS ANGELES, CAL.—Mayberry & Parker, Engrs., Pacific Electric Bldg., have been retained by the County Board of Supervisors of Ventura County to prepare plans for eleven reinforced-concrete bridges and to act as consulting engineers for the erection of nine steel bridges. The bridges are to be built in connection with the county highway system and will be constructed across the Santa Clara River. The concrete bridges will range in length from one to three spans, and the steel bridges will range from 100 to 1,200 ft. in length. The estimated cost of the work is $232,000.

RIVERSIDE, CAL.—The Crestmore Electric R. R. Co., owned by the Riverside Portland Cement Co., has had surveys made for a reinforced-concrete bridge over the Santa Ana River, to be wide enough to carry a double-track line.

FREDERICTON, N. B.—Bids will be received until noon, March 6, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for building the concrete substructure and approaches of Tracy Station bridge, over the Oromocto River.

MINNITONAS, MAN.—Bids will be received until noon, April 15, by E. Widmeyer, Secy and Treas., for the supply and erection of a steel Warren truss bridge and two concrete piers. The bridge is to be 60 ft. from center to center of end bearings.

SWAN RIVER, MAN.—Bids will be received until April 15, by Joseph Armstrong, Secy. and Treas., for the erection of a 94-ft. steel-riveted, Pratt truss bridge over the Woody River. Plans and specifications are on file at the Department of Public Works, Winnipeg, Man.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Plans have been prepared for the construction of the Motley School. The building will be 42 × 79 ft., two stories high and a basement. Charles Logue, 110 Boylston St., is Chn. School House Comrs.

A Dental Infirmary is about to be constructed in the Fenway. The estimated cost is about $250,000, donated by T. A. and J. H. Forsyth. Edward T. P. Graham is Arch.

BOSTON, MASS.—The plans for a new parochial school for St. Eulalias Roman Catholic Church Society at the corner of East Third and O Sts., South Boston, are now being figured on by contractors. The building is to be of terra cotta and plaster, two stories high, 100 × 140 ft. Chickering & O'Connell, 18 Boylston St., Boston, are the Archs. Estimated cost, $70,000.

BROCKTON, MASS.—Reports state that Andrew Carnegie has promised at least $75,000 for the erection of a new library here. James Bertrand is Mr. Carnegie's Secy. in charge of libraries.

MITTINEAGUE, MASS.—Plans have been prepared by E. C. and G. C. Gardner, 33 Lyman St., for the construction of a Y. M. C. A. building. The building will be 41 × 100 ft., of brick construction and terra cotta trimmings.

PITTSFIELD, MASS.—The city of Pittsfield has awarded the contract for the construction of a school on Onota St. to FOOTE & JONES, 260 Columbus Ave., at $70,700. The plans, which are by McLaughlin & Siebert, 100 North St., call for a brick and stone building, 80 × 103 ft., two stories and basement. W. H. McInnis, Mayor, is Chn. Com.

SOUTHBRIDGE, MASS.—The contract has been awarded to E. D. WARD, Worcester, for the construction of 4-story, 100 × 100 ft., brick structure for the Hamilton Wooden Co.

SPRINGFIELD, MASS.—A building, containing eight stores and twenty apartments, is to be erected on the corner of Main and Bond St. The building will be four stories high, 50 × 140 ft. W. B. Reid, 280 High St., Holyoke, is Arch. The estimated cost is $45,000.

PROVIDENCE, R. I.—Bids will be received until March 8, by Henry Fletcher, Chr. Bd. of Contract and Supply, for improving the Courtland St. Primary School. Martin & Hall, Union Trust Bldg., are the architects.

HARTFORD, CONN.—The general contract for the erection of a 7-story brick store and office building on Main St. for J. A. Pilgard has been awarded to T. R. FOX & SON, Hartford. The Berlin Construction Co., Berlin, Conn., have the contract for the steel work. The building will be 67 × 84 ft., with pressed brick front and stone trim. George Zunner is the Arch.

HARTFORD, CONN.—J. J. McMahon, Arch., is preparing plans for a 5-story brick store and apartment block about 52 × 95 ft., for Richard J. Kinsella and Thomas A. Smith at 1039 Main St.

NEW HAVEN, CONN.—The plans for the new church of St. Rose's Roman Catholic Society on Saltonstall Ave. are now ready for contractors to figure on. The structure will be of brick, 88 × 166 ft., with limestone trimmings, slate roof and steam heat and will have a seating capacity of 1,200. The cost is estimated at $75,000. Rev. J. J. Fitzgerald, 115 Blatchley Ave., is the pastor in charge.

NEW BRITAIN, CONN.—Isaac A. Allen, Jr., Arch., Hartford, has completed plans for a brick building to be erected on Main St., for F. H. Alford. It will be 40 × 100 ft., five stories high, with pressed brink front.

NEW HAVEN, CONN.—The following subcontracts have been awarded recently in connection with the erection of the new Hotel Taft, at Chapel and College Sts., for which V. J. HEDDEN & SONS, 1 Madison Ave., N. Y., are the general contractors; fireproof floors to the HAMMETT FIREPROOF CO., Washington, D. C.; sheet metal roofing and waterproofing, L. A. STORCH & CO., 517 East 73d St., New York; ornamental steel and cast iron, THE WELLS ARCHITECTURAL IRON CO., New York. The brick, stone, terra-cotta and structural concrete work will be done by the general contractor. (Other sub-contracts noted in issue of Feb. 2.) F. M. Andrews, 22 Metropolitan Bldg., New York, is the Arch.

STAMFORD, CONN.—Plans are being prepared for the new buildings which the Stamford Hospital Association will erect here soon. The cost is estimated at $300,000.

WATERBURY, CONN.—This city has introduced a bill in the State Legislature, authorizing a bond issue of $400,000 for the erection of a new high school building. The present building will then be used as a manual training school.

WATERBURY, CONN.—Bids will be received until April 15 by Griggs & Hunt, Archs., 35-51 Leavenworth St., for a 12-story and office building on North Main St., for William Reither. It will have a steel frame, pressed brick front and three elevators. Estimated cost, $250,000.

The Southern New England Telephone Co. has purchased a tract of land on Leavenworth St., on which to erect a new building for its Western Division offices and Waterbury exchange. Press reports state that the building will be 42 × 180 ft., four stories high and of strictly fireproof construction.

WATERBURY, CONN.—Plans have been completed by Joseph A. Jackson, Arch., New York City, for a 5-story brick apartment block, 40 × 105 ft., to be erected at 317-319 North Main St., for Thomas F. Lawlor. The front will be of tapestry brick, with Indiana limestone trim.

BUFFALO, N. Y.—G. Morton Wolfe, Arch., 638 Ellicott Sq., is completing plans for a 2-story and basement shipping building and stable, 75 × 150 ft., brick fireproof construction, to be erected by the Brunner Baking Co. at Oak and Syracuse Sts. Estimated cost, $50,000.

MECHANICSVILLE, N. Y.—The Manufacturers National Bank, of Mechanicsville, N. Y., will shortly erect a new building on the corner of Park Ave. and Main St. in that village. The structure will be one story in height and will cost in the neighborhood of $50,000. Marcus T. Reynolds, 100 State St., Albany, N. Y., is Arch.

MOUNT VERNON, N. Y.—At a special election the taxpayers voted to spend $250,000 for a new high school building on North Fourth Ave. Work will start as soon as possible.

NEW ROCHELLE, N. Y.—The Library Board, through John Holden, Pres., has asked the Common Council to appropriate $100,000 for a site and erecting a city library. It is thought a site can be bought for $25,000.

NEW YORK, N. Y.—Plans have been completed by G. and E. Blum, 505 Fifth Ave., for the construction of a 12-story apartment building, 59 × 83.2 ft., at 164-168 West 72d St., for Brown Brothers, Inc., 33 East 20th St. The estimated cost is $300,000.

Bids are being received by A. Arctander, Melrose Ave. and 149th St., for the construction of a 5-story brick tenement at 155th St., 300 ft. west of Courtlandt Ave. Clara Icker, 322 East 155th St., is owner. The estimated cost is $40,000.

Bids will be received about March 15 by the Psaty Construction Co., 147 East 125th St., for the construction of a 6-story flat building on the east side of Washington Ave., 156 ft. north of 175th st. The estimated cost is $55,000. C. B. Meyer, 1 Union Sq., is preparing plans.

C. B. Meyer, 1 Union Sq., is preparing plans for the construction of a 6-story tenement building at 403-409 East 56th St. for the Robert Goelet estate, 9 West 17th St. The estimated cost is $95,000.

Noble & Gauss Construction Co., 149th St. and Third Ave., are having plans made for the construction of a 5-story brick tenement building at 168th St. The estimated cost, $40,000. Edward J. Byrn, 3029 Third Ave., is Arch.

Goldner & Goldberg, 704 Jackson Ave., are preparing plans for the construction of two 5-story tenement buildings at 144th St. and Mott Ave. Estimated cost is about $120,000. The Mott Ave. Realty Co., 145th St., is owner.

The contract will soon be awarded by Harris H. Uris, 525 West 26th St., for the construction of a 6-story loft building at 515-517 West 26th St. The estimated cost is $65,000.

NEW YORK, N. Y.—Figures are being taken by Bannister & Schell, 69 Wall St., for the erection of the church and parish house to be erected at 179th St. and Fort Washington Ave. by the Trustees of Holyrod Church, 181st St. and Broadway. The present building will be razed. The structure will be stone, 170 × 170 ft., and cost about $85,000. The Rev. Stewart Crockett, 160 West 72d St., is Rector.

SYRACUSE, N. Y.—J. A. Seitz has bought a site, 61 × 91 ft., at Herald Place and Jefferson St., and will erect a 5-story fireproof building for stores and offices. It will be built of reinforced concrete and manufactured stone and will cost about $60,000. It is expected to be ready to occupy next fall.

SYRACUSE, N. Y.—H. C. Allen, City Engr., T. A. Levy and E. E. McCready, as a committee, are having plans prepared for a vocational high school to accommodate 1,000 pupils; $2,500 appropriated for preparation of plans will be used as prizes in a competition among local and outside architects for suitable plans. Giles H. Stilwell is Pres. Vocational High School Com.

TROY, N. Y.—Bids will be received by Roy H. Palmer, Clk. of Com., until 1 p. m. Mar. 29, for the construction of the proposed county jail, workhouse and sheriff's residence here. Plans and specifications may be obtained from William J. Beardsley., Arch., Pougskeepsie, N. Y. The approximate cost of buildings is $112,000.

WHITE PLAINS, N. Y.—Plans drawn by A. G. C. Fletcher, Arch., New York, for an office building for the Lawyers' Title Insurance Trust Co., on Railroad Ave., have been approved and bids have been invited. The building will cost in the neighborhood of $75,000.

WHITE PLAINS, N. Y.—Leopold Kahn will rebuild at a cost of about $40,000 his hotel and adjoining buildings recently destroyed by fire.

YONKERS, N. Y.—The Baptist Church of the Redeemer has decided to construct a new church, costing about $45,000, at Leighton Ave. and Valentine Lane. The Trustees have approved the plans of George W. Kramer and have been authorized to go ahead with the work. Paul Monroe, 44 Prospect Drive, is a Trustee.

YONKERS, N. Y.—H. W. Bertholf, Geo. W. Olivit and John T. McKenna, Committee on Architecture of Board of Education, will receive bids until March 13 for an addition of six rooms and an assembly to School No. 5, Lockwood Ave.

CAMDEN, N. J.—C. J. Brooke, Arch., has completed plans for a 9-story brick, concrete and steel flat house, 116 × 66 ft., at Second and Penn Sts., Camden, N. J., for the Greater Camden Realty Co. The cost will be $100,000.

UNION HILL, N. J.—Bids will be received until March 8 for the construction of a fireproof high school building between Lewis and Gardner Sts., Union Hill. The building will be a 3-story, 200 × 200 ft., structure, containing an auditorium, gymnasium and domestic science rooms. The estimated cost is $250,000.

BRADDOCK, PA.—The Board of Education, Braddock, will receive bids, until Mar. 15, for the construction of a 2-story school building at North Braddock. W. J. Shaw, Century Bldg., Pittsburg, is Arch.

*CONNELLSVILLE, PA.—Bids will be received until 3 p. m., April 10, by James Knox Taylor, Super. Arch., Treasury Dept., Washington, D. C., for the construction complete (including plumbing, heating, gas-piping and wiring) of the U. S. post-office at Connellsville, Pa. Plans and specifications may be obtained from the custodian of the site or at the discretion of the Super. Arch.

PHILADELPHIA, PA.—Otto C. Wolf is preparing plans for the erection of a commercial building at 214-16 South St. James St. The estimated cost is $100,000.

John C. Knox is having plans prepared for 60 2-story, 17 3-story and two 4-story flat buildings, at 50th and Pine Sts. They will cost about $250,000.

Frank Williams has been granted a permit for the erection of 50 2-story buildings on More and 24th Sts. and Point Breeze Ave., at a cost of $77,300.

BALTIMORE, MD.—CRAMP & CO. have been awarded a contract for the erection of a combination office building and theatre on Fayette St., between Howard and Eutaw Sts., Baltimore, for the Empire Theatre Co. W. H. Elfatrick & Otto Simonson, Archs. The building will be fireproof, with a terra-cotta exterior, on a lot 95 × 160 ft. The cost is $275,000.

Charles H. & Edmunds Dickel, Maryland Metre Co., Holliday and Saratoga Sts., are having plans prepared by Howard Sill, 11 East Pleasant St., for two fireproof residences to be erected on Somerset Road, near Keswick Ave., Roland Park. The buildings will be of concrete, granite and brick construction, steam heat, tile and marble interior trimmings, and combination fixtures. The estimated cost is $100,000.

CAMBRIDGE, MD.—Zion Methodist Episcopal Church has had plans prepared by Leon Wilde Crawford, Wilmington, Del., for the construction of an edifice to cost about $50,000. The building will be of English Gothic design; Port Deposit granite with limestone trimmings; 132 × 80 ft.; two entrances; three towers, one 76 ft. and two 56 ft. high; main auditorium to have seating capacity of 550 and will be connected by movable partitions with Sunday-school room, which will seat 400; rooms to be finished in hardwood.

FREDERICK, MD.—Bids for the construction of a 2-story and basement high school will be received until March 18 by the Board of School Comrs. The cost is about $55,000.

BIG STONE GAP, VA.—Bids were received as follows on Feb. 20 by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for the construction of a post-office at Big Stone Gap, Va. (item 1, limestone; item 2, sandstone).

J. E. & A. L. Pennock, Philadelphia (1), $95,400; (2) $97,600. Thomas H. Melton, Washington (1), $95,800; (2) $97,300. Plowman Construction Co., Philadelphia (1), $90,880; (2) $92,880. Holladay & Crouse, Greensboro, N. C. (1), $104,000; (2) $104,600. William H. Fissell & Co., New York (1), $101,700; (2) $107,000. George Becking, Chattanooga, Tenn. (1), $103,609. Merrick Fireproofing Co., New York (1), $101,900; (2) $101,900. George Leigh & Bro., Louisa, Va. (1), $105,000; (2) $106,600. Westchester Engineering Co., New York (1), $98,900; (2) $101,349. Jos. Seay & Co., Concord, N. C. (1), $99,349; (2) $101,349. John G. Unkefer, Minerva, Ohio, (1) $110,980. Charles H. Peckworth, New York (1), $106,192. D. J. Phipps, Newport News, Va. (1), $97,693; (2) $100,693.

RICHMOND, VA.—The Thalheimer Bros. have awarded the contract to JOHN T. WILSON, Richmond, for erection of a business building, to have five stories, of brick, concrete and steel construction. Cost about $120,000. Plans by Chas. K. Bryant, Richmond, Va.

OCALA, FLA.—Bids will be received by John L. Edwards, Ocala National Bank, Ocala, until March 7, for the construction of a bank building. W. B. Carup, Jacksonville, prepared plans.

MONROE, LA.—Bids will be received until March 10 at the Monroe Hotel for the construction of a 3-story brick addition to it. William A. Stanton, 501 First National Bank Bldg., is Arch.

BOWLING GREEN, KY.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded the contract for the construction of a post office building at Bowling Green, Ky., to the PLOWMAN CONSTRUCTION CO., Mutual Life Bldg., Philadelphia, at $114,529.

ALLIANCE, OHIO.—Bids will be received until March 30 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete (including heating, wiring, etc.) of the U. S. post-office at Alliance, Ohio.

ALLIANCE, OHIO.—Bids will be received Mar. 21 by the Board of Education for the sale of $50,000 bonds for the erection of a High School building here.

CINCINNATI, OHIO.—Bids will be received by the Board of Education, until Mar. 13, for the construction of a reinforced concrete school, to be built at Freeman Ave. and Poplar St. Tietig & Lee, 711 Lyric Theatre Bldg., are Archs.

DAYTON, OHIO.—Bids will be received, until March 15, for the construction of a 4-story reinforced concrete hotel, for Clarence Lindsay. Gustave A. Niehust, Callahan Bldg., is Arch.

GRAND VIEW, OHIO.—The Grand View School district has voted to issue $50,000 in bonds for the erection of a modern school building.

PORTSMOUTH, OHIO.—A new roundhouse will soon be built by the Baltimore & Ohio Southwestern R. R.

TOLEDO, OHIO.—Bids will be received by the Bd. of Co. Comrs. until Mar. 21 for material and labor necessary to erect a hospital for tuberculosis. D. L. Stine, 405 Valentine Bldg., is Arch.

AUBURN, IND.—Plans have been completed and presented to the Commissioners of DeKalb County for the construction of a new court house. Bids will be asked in a few weeks. Mahurin & Mahuran, Ft. Wayne, Ind., are Archs. Estimated cost is $250,000.

CLINTON, IND.—H. P. Dies has purchased a site on Main St., on which he will erect a modern 2-story brick business block. Bids will be in order as soon as plans are completed.

COLUMBUS, IND.—Keller & Brockman have announced that they will soon ask for bids for the construction of a new 3-story brick business block, as will also John S. Crump, on South Fourth St. The latter building will be two stories high and of brick, stone and concrete construction. D. Ogden has also ordered plans on which to ask for bids for the erection of a new brick business block on North Fourth St.

CROWN POINT, IND.—The commissioners of Lake County are preparing to ask for bids for the erection of a new county infirmary, to cost from $75,000 to $100,000.

DANVILLE, IND.—Ottis E. Gulley has ordered plans on which he will ask for bids for the erection of a modern business block in West Main St.

INDIANAPOLIS, IND.—The Board of Public Works have received plans for the erection of three fire department houses, estimated to cost $10,000, $40,000 and $45,000, respectively. Bids will be asked in a few weeks. Herbert L. Bass & Co., Archs.

MUNCIE, IND.—The Trustees of Salem Township, Delaware County, are planning to construct a new school building in the Cross Roads District.

PLYMOUTH, IND.—The Trustees of the Methodist Episcopal Church are preparing to ask for bids for the complete remodeling and enlarging of the church property.

SALAMONIA, IND.—The School Board is preparing to build a new and modern brick school building here.

TERRE HAUTE, IND.—Thomas Furgason, Trustee of Lost Creek Township, will receive bids until 3 p. m. Mar. 7 for the erection and completion of a high school. Paget & Dickenson are Archs., 214 I. O. O. F. Temple.

VALLONIA, IND.—Bids will be received until Mar. 2 by the Board of Trustees for the construction of two school buildings complete, including heating, sewering and plumbing. Dunlap & Van Arman, Archs., State Life Bldg., Indianapolis, Ind.

WABASH, IND.—The Trustee of Noble Township will receive bids until Mar. 9 for the construction of the new Chippewa high school building. Griffith & Fair, Ft. Wayne, are Archs.

WASHINGTON, IND.—Plans have been received by the Trustees of the Christian Church for the erection of a new and modern building. Louis Osterhage, Vincennes, Ind., is Arch.

DETROIT, MICH.—The Directors of the Museum of Art, Wm. C. Webber, 486 Third Ave., Chr. of Bldg. Com., have applied to the Common Council for an appropriation of $1,100,000 for the erection of an art museum.

Joseph H. Oberlies, 838 Granite Bldg., Rochester, N. Y., is preparing plans for a 5-story and basement apartment building for Peter A. Klein of Detroit, Mich. Owner will will receive all bids. Cost about $40,000.

Albert Lodge, 44 High St., is having plans prepared for a new 6-story and basement apartment building, 80 > 94 ft., containing 100 apartments. The owner will purchase all material and sub-let all contracts. The cost is about $100,000.

Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., are preparing plans for a new 10-story and basement office building, 100 × 30 ft., for the Detroit Free Press, E. D. Stair, Pres., 11-13 Lafayette Blvd. Bldg. The building will be of pressed and stock brick, Bedford stone, composition roof, metal skylight and cornice, structural iron, hardwood finish, and floors marble mosaic, tiling and electric fixtures. The structure will be strictly fireproof. Estimated cost, $200,000.

Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., are preparing plans for a 6-story and basement warehouse, 77 × 120 ft., for Joseph Boyer, 637 Woodward Ave., the building to be of reinforced concrete. Architects will soon be ready for figures. The cost is $80,000.

Same architects will soon be ready for figures on the new 3-story and basement office building, 110 × 130, for Thos. J. Barry, 93 Elliott St. The cost is about $40,000.

E. W. Gregory, Woodward and Smith Aves., is preparing plans and will soon receive figures on a new apartment building of 125 apartments, six stories high and basement, 90 × 105 ft., for P. W. Kendall, Garfield Ave. and St. Antoine St. Cost is $100,000.

Stratton & Baldwin, 1103 Union Trust Bldg., have let the general contract for the new 4-story and basement warehouse for the Riverside Storage Co., Cass Ave. and Congress St., to the A. J. SMITH CONSTRUCTION CO., 911 Hammond Bldg.

Wm. R. Croul, Cass and Congress Sts., has awarded the general contract for the construction of a 2-story warehouse, 50 × 120 ft., to the A. J. SMITH CONSTRUCTION CO., 911 Hammond Bldg., at $40,000.

Varney & Winter, Equity Bldg., Detroit have been commissioned by John Brushaber's Sons, 259 Gratiot Ave., to prepare plans for a new 5-story and basement furniture house, 138 × 150 ft., to be located at 153 Gratiot Ave. Estimated cost about $150,000.

Smith, Hinchman & Grylls, 710 Washington Arcade, have awarded the following contracts for the addition to the office building and car house of the Detroit United Ry., F. W. Brooks, Gen. Mgr., 12 Woodward Ave.; Structural iron work and masonry let to W. S. VIVIER, 189 Avery Ave.; carpentry let to VINTON CO., 150 Woodbridge St.; composition roofing let to P. C. BARTLING, 755 Hancock Ave., West; painting let to BREDE & SCROETER, 20 Adams Ave., West.

Malcomson & Higginbotham, 404 Moffat Bldg., will take figures about Mar. 1 for the construction of a 2-story and basement residence, 45 × 80 ft., for Bert Lambert, 64 Virginia Ave. The building will be erected on Boston Boulevard. Cost about $40,000.

H. J. Rill, 54 Buhl Block, Detroit, Mich., and Samuel Hannaford & Son., Supervising Architects, Hurlburt Bldg., Cincinnati, Ohio, are about ready for figures on the new chapel for the Sisters of the Good Shepherd, Mother of St. Lawrence, Provincial, Carthage, Ohio. The main chapel will be one story, 80 ft. in diameter, with seven chapels leading from same, 40 × 70 ft. each. The cost is about $100,000.

HILLSDALE, MICH.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded contract for the construction of a postoffice building at Hillsdale, Mich., to CHARLES W. GINDELE, 3333 La Salle St., Chicago, at $51,000.

IONIA, MICH.—Bids will be received until March 31 by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for the construction complete of the U. S. postoffice at Ionia, Mich.

MT. CLEMENS, MICH.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded contract for the construction of a postoffice at Mt. Clemens, Mich., to HARMON BROS., Williamsport, Pa., at $52,387.

CHICAGO, ILL.—A 10-story fireproof building will be erected by F. R. Barnheisel on Madison St. The estimated cost is $75,000.

APPLETON, WIS.—The Wisconsin Telephone Co., Alonzo Burt, Milwaukee, Wis., Pres., has purchased a site at Superior and Washington Sts. for a proposed $100,000 exchange building, to be erected in spring.

MADISON, WIS.—A bill has been introduced in the Legislature appropriating $150,000 for the purchase of 1,000 acres, and $250,000 for the construction of buildings for an additional home for the feeble-minded, to be established in the vicinity of Milwaukee, Wis. M. J. Tappins is Secy., Wisconsin State Board of Control.

MILWAUKEE, WIS.—Martin Tullgren & Sons, Archs., have prepared plans for the construction of a $50,000 apartment house to be erected on Farwell Ave. and Kane Pl. The building will be three stories high, of solid building brick construction. Architects are owners.

THE CONRAD RAULF CONSTRUCTION CO. will build for Conrad Raulf an apartment house building, to be four stories high, on Lake Drive, near Bradford Ave. Cost about $45,000.

H. C. Koch & Son, Archs., Wells Bldg., will be ready for bids soon for the construction of a new building as an addition to The Boston Store, to cost about $250,000. The structure will be of reinforced concrete and steel, five stories high, 160 × 120 ft., fronting on Fourth and on Sycamore Sts.

WATERTOWN, WIS.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded contract for the construction of a post office at Watertown, Wis., to the NORTHERN CONSTRUCTION CO., Milwaukee, Wis., at $59,640.

STARBUCK, MINN.—Bids will be received until Mar. 9 by the County Farmers' Co-operative Mercantile Co. for the construction of a store and bank building. A Fossil, Mgr. A. H. Foss, Elbow Lake, Arch.

WARREN, MINN.—Bids will be received by Rev. G. Wahlund, Chr. Bldg. Com., until Mar. 6 for the superstructure of a 3-story building for the North Star College. F. E. Halden, Kasota, Bldg., is Arch.

WASECA, MINN.—Bids will be received until Mar. 13 by C. H. Bailer, Clk School Bd., for constructing a school. Bids will also be received for heating, plumbing, vacuum cleaning, general contract. Geo. Pass & Son, Mankato, are Archs.

MITCHELL, S. DAK.—The Dakota Wesleyan University, Mitchell, will receive bids until Mar. 15, for the superstructure of the Science Building.

ONIDA, S. DAK.—The following bids were received on Feb. 16 by F. C. Barber Co., Aud. for the construction of a court house at Onida: GRAY CONSTRUCTION CO., Watertown, S. Dak., $55,539 (awarded contract); Betts Construction Co., Huron, S. Dak., $67,215; C. E. Wierschke, Glenwood, Wis., $61,267; Wold & Johnson, Brookings, S. Dak., $55,965; Thomas P. Sorkilmo, Dell Rapids, S. Dak., $75,612; Winters & Short, Atwood, Kansas, $79,115; The Lepper Construction Co., Aberdeen, S. Dak., $59,775; Stolte & Miencier, Redfield, S. Dak., $63,917; Majestic Construction Co., Milwaukee, Wis., $69,964; Olson & Johnson, Missoula, Montana, $67,560; Blackhawk Construction Co., Waterloo, Iowa, $61,189; Fred Bjodstrup, Mitchell, S. Dak., $79,000. Plans were prepared by the Black Hills Co., Deadwood, S. Dak.

KANSAS CITY, MO.—Bids will be received until Mar. 6 by E. B. Harrington, Secy. Board of Fire & Water Comrs., for erecting two engine houses.

NORMAN, OKLA.—Bids will be received until Mar. 20 by Bailey & Bailey, 901 Colcord Bldg., Oklahoma City, for constructing a brick and reinforced concrete bank building for the First State Bank.

CLAREMONT, CAL.—Robert H. Orr, 24 State Bank Bldg., Pomono, will receive bids until March 11 for the construction of the Claremont High School, also a manual arts building and a domestic science building. W. S. Palmer is Clk. of Board of Trustees.

LOS ANGELES, CAL.—A. C. Martin, Arch., Higgins Bldg., has been commissioned to prepare plans for a 4-story concrete sanitorium for Dr. W. J. Geiermann, in Altadena. The building will be 40 × 100 ft., steam heat, elevators, clay tile roof. Several small frame cottages will be erected for employees. Cost is $40,000.

SAN FRANCISCO, CAL.—H. C. WARWICK, 180 Jessie St., has been awarded the general contract for a brick building by the G. G. Burnett estate, on Larkin St., at $54,480. C. A. Menssdorffer, Humboldt Bank Bldg., is Arch.

MONTREAL, QUE.—At a meeting of the directors of the Montreal Amateur Athletic Association it was decided to construct a clubhouse to cost $75,000.

QUEBEC, QUE.—EMILE DUBE, Fraserville, Que., and JOSEPH GOSSELIN, Levis, Que., have been awarded the contract for restoration of the customs house here, at $135,369.

BELLEVILLE, ONT.—Bids will be received until Mar. 4 by J. L. Hess, Secy., for the construction of a building for the Y. M. C. A. C. J. Gibson, Toronto, is Arch.

FORT WILLIAMS, ONT.—W. J. Ross is having plans prepared for the construction of an opera house, to be erected this spring. Cost, $60,000.

HARRISTON, ONT.—Bids will be received until Mar. 13 by R. C. Desrochers, Secy. Dept. Pub Wks., Ottawa, for the erection of a public building. H. J. Lamb, London is District Engr.

STRATFORD, ONT.—President MacDonald, of the Board of Trade, has announced receipt of advices from President Chas. M. Hays, of the Grand Trunk Ry., stating that the new station here will be constructed early this spring.

TORONTO, ONT.—David McNicoll, Vice-Pres. and Gen. Mgr. of the Canadian Pacific R. R., has announced the programme of the company in regard to the proposed improvements to care for its traffic at its Toronto terminals. An office building for the Dominion Express Co. will be constructed at the corner of King and Simcoe Sts., and on the balance of the land will be located large freight sheds and storage warehouses. Freight sheds will also be established at Cherry St., in the east, Bloor St. in West Toronto, and at a point between West Toronto and Lambton, while its Queen's wharf property will be reserved for a freight yard for the central western district. An office building, from 15 to 17 stories high, will be erected at King and Yonge Sts., while a new depot will be built at North Toronto, the latter costing $624,000. According to Mr. McNicoll, there will be an expenditure, for all purposes, of about $6,000,000.

BATTLEFORD, SASK.—The government has agreed to erect a combined postal and public building here, to cost about $125,000.

REGINA, SASK.—Bids will be received until noon Mar. 6 by Storey & Van Egmond, Archs., for the erection of a bank and office building for the Bank of Ottawa.

SASKATOON, SASK.—Brown & Vallance, Archs., Winnipeg and Saskatoon, are preparing plans for an office building for Dr. P. D. Stewart, to cost $70,000. It will be 50 × 100 ft., five stories high.

CRANBROOK, B. C.—An isolation hospital will be erected here this spring. A grant has been obtained from the Provincial Government.

MERRITT, B. C.—The town is now arranging for the erection of a municipal hospital, plans for which will be prepared soon.

NEW WESTMINSTER, B. C.—The contract for the new Y. M. C. A. building has been awarded to SLOAN & HARRISON, at $37,000, exclusive of plumbing and heating.

VANCOUVER, B. C.—Rough plans have been prepared and forwarded to Ottawa for a new armory here, to cost $1,000,000; with a petition that the building be erected. Address Co. Fiset, Deputy Min. of Militia, Ottawa, Ont.

St. Mark's congregation has decided to erect a new church costing $125,000.

The Mountain View Methodist Congregation has decided to construct a church building. The estimated cost is $60,000.

The Lester School of Music will erect a musical academy and apartment block combined near Burrard. The estimated cost is $110,000.

The Canadian Pacific R. R. will build a 250 × 60 ft. addition to its freight sheds here.

R. P. FORESHAW has been awarded the contract for the construction of a 7-story hotel to be erected on Main and Harris Sts. for Sam Lee, at $100,000.

George Dawson is having plans prepared for the construction of an 8-story building to be erected on Main and Hastings Sts. Cost, about $125,000.

CALGARY, ALTA.—Hodgson & Bates, Archs., are preparing plans for a 5-story block, with a frontage of 230 ft. on Seventh Ave. Bids for construction will be asked for soon.

The McNair Fruit Co. is having plans prepared for a new wholesale block to cost $45,000.

The Fourteenth Ave. Methodist Church will be rebuilt at a cost of $55,000. Rev. C. W. Bishop is Pastor.

EDMONTON, ALTA.—Bids will be received until noon Mar. 4 by Arch. D. S. McIlroy, 118 Eighth Ave., W., for labor and material necessary to construct a brick veneer school for St. Andrews congregation.

EDMONTON, ALTA.—Adams Bros., Winnipeg, are having plans prepared by Barnes & Gillies, Edmonton, Alta., for a wholesale and office building to cost about $160,000.

RED DEER, ALTA.—Pl[illegible] being prepared for the construction [illegible] 4-story bank building to be erected her[illegible] the Northern Crown Bank.

WATER SUPPLY—I[illegible]IGATION.

(*Denotes that this work [illegible] advertised in Engineering N[illegible])

*FORT McKINLEY (Po[illegible] post-office, ME.—Bids will be receiv[illegible] April 15 by Capt. Joseph F. Gohn[illegible] Q. M. U. S. A., Portland, Me., [illegible] construction and installation of a [illegible]ical water softening plant of 15,000 [illegible] capacity per hour at Fort McKinley.

FALL RIVER, MASS.—T[illegible]ntract for furnishing 17,200 ft. of 6, [illegible] and 12 in. water pipe has been awarded, [illegible] is reported, to R. D. WOOD & C[illegible] Chestnut St., Philadelphia, Pa., at $2[illegible] per ton.

SPRINGFIELD, MASS.—T[illegible]ater Commissioners on Feb. 21 awarde[illegible]ntract to the U. S. CAST IRON PIPE [illegible]OUNDRY CO., 71 Broadway, New York, [illegible]urnishing water pipe, at $22.35 per ton [illegible]000 lbs.

JEWETT CITY, CONN.—Th[illegible]nook Co. has awarded the contract for [illegible] dam on the Quinnebang River at [illegible] City to ARCHIBALD TORRANCE of N[illegible]h, Conn. The dam will be of reinforced [illegible]rete, 470 ft. long and 20 ft. high and [illegible] about $40,000. Chandler & Palmer, [illegible]ich, are Engrs.

NEW BRITAIN, CONN.—P[illegible]gn, Clk. Water Bd., is asking bids fo[illegible]er pipe for the department for the [illegible] year. There will be required approx[illegible]ly 10,000 ft. of 6-in. and 3,000 ft. of 8-in. pipe.

WATERBURY, CONN.—The B[illegible] of Public Works has authorized John [illegible] Walker, Supt. of Water, to purchase 20,0[illegible] of water pipe of various sizes.

BATH, N. Y.—The city is con[illegible]ing the construction of water mains in Mo[illegible], Steuben, William and Haverling Sts.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., March 8, for furnishing constructing and erecting a pumping station near the existing Grant City Driven Well Plant, Boro. Richmond.

*NEW YORK, N. Y.—Bids will be received until 11 a. m., March 21, by the Board of Water Supply, for Contract 58, for furnishing and installing a complete drainage equipment for unwatering the shafts and tunnel of the Rondout siphon of the Catskill Aqueduct. For details see advertisement in this issue.

TROY, N. Y.—Bids will be received until March 16 by the Board of Contract and Supply for the construction of a reservoir and spillway. Estimated cost, $200,000. Eugene S. Osborne is Supt. W. Wks.

*WESTBURY (L. I.), N. Y.—Bids will be received by the Board of Water Commissioners until 11 a. m., March 20, for furnishing approximately 630 tons of B. and S. pipe, 23 tons special castings, 100,000-gallon tank and steel tower 164 ft. high, 76 double-zz fire hydrants, 58 gate valves and boxes, two deep well triplex power pumps, 1,000,000 gallons capacity; two 35-HP multiple cylinder vertical gas engines with gas producer, concrete pumping station, and laying about seven miles of pipe, and drilling two 12-in. wells. For details see advertisement in this issue. Walter E. Sexton is Engr., Mineola, N. Y.

*SPRING LAKE, N. J.—Bids will be received until 2 p. m., March 15, for furnishing, delivering and erecting the complete mechanical equipment of an artesian waterworks plant. This is an extension of date from March 10.

PITTSBURG, PA.—Bids will be received until 10 a. m., March 13, by the Department of Public Works at the office of the City Controller, for the construction of a pumping station building and appurtenances at the Mission St. station. Joseph G. Armstrong is Dir. Pub. Wks.

SCHUYLKILL HAVEN, PA.—The citizens on Feb. 14, voted to build additional reservoirs. Estimated cost, about $50,000.

JONESBORO, N. C.—Bids will be received by D. H. Arnold, Mayor, and Board of Aldermen, until 5 p. m., March 13 for constructing water-works. The work will consist of furnishing 165 tons of 6-in. and 220 tons of 8-in. pipe, together with hydrants and specials; laying four miles of 6-in. and 8-in. pipe; and furnishing and erecting a 75,000-gallon tower and tank. Plans and specifications are on file at the office of W. S. Murchison, Clk., Jonesboro, and at the office of White & Platt, Engrs., Durham, N. C.

ROCKINGHAM, N. C.—The City is considering an issue of bonds for water-works extensions.

ST. GEORGE, S. C.—The town is considering the construction of a modern water system and electric light plant. Estimated cost, $17,000.

DOUGLASVILLE, GA.—The city has awarded the contract to the J. B. McCRARY CO., Atlanta, Ga., for the construction of water-works here, for which $20,000 of bonds have been issued. J. R. Hutcheson is Mayor.

MACON, GA.—The citizens on March 18 will vote on the proposition of purchasing the Macon Water Works for $699,000. [illegible] W. Wilcox is City Engr.

TITUSVILLE, FLA.—The city has voted to issue $30,000 of bonds for the construction of water-works.

NEW DECATUR, ALA.—The city has voted in favor of issuing $10,200 of bonds for the construction of water-works.

MARKS, MISS.—The City Council has voted to issue $5,000 of bonds for the construction of water-works and sewerage.

TUPELO, [illegible]—The city has decided to issue $50,0[illegible] [illegible] bonds for improving and enlarging [illegible] water-works and other improvements.

TYLERT[illegible] MISS.—The construction of a water-w[illegible] system is being considered by the city. [illegible] A. Kramer, Consult. Engr., Magnolia, [illegible] is interested.

DYER, [illegible]—The town is considering the construction of a water system.

NEWP[illegible] KY.—The Water Works Committee has decided to construct a new reservoir.

CENT[illegible]G, OHIO.—We are officially advised [illegible] L. Maddocks, Consult. Engrs., 504 Tru[illegible], Newark, Ohio, has been retained [illegible] Village Council to prepare plans and specifications for the construction of a water supply system.

COLU[illegible], OHIO.—Bids will be received until M[illegible] by the Board of Public Service; J[illegible] Wenner, Clk., for laying c. i. pipe, [illegible] castings, etc., in connection with [illegible] water distribution system.

EAST [illegible]VERPOOL, OHIO.—The city has employed [illegible]hester & Fleming, Engrs., Pittsburg, [illegible] in connection with the proposed improvements to the water system and the installation of a new pumping station.

GRAN[illegible] VIEW (Columbus post-office), OHIO.—[illegible] will be received until March 21 by [illegible] Hinterschied, Village Clk., for furnishing material and laying water mains.

NEW LEXINGTON, OHIO.—Bids will be received until March 13 by the city for the construction of a water-works system.

PORTSMOUTH, OHIO.—The City Council has accepted and approved the Water Commissioner's recommendation for the installation of a sand filtration plant.

TOLEDO, OHIO.—The Department of Public Service has awarded the contract to the NORWOOD ENGINEERING CO., of Florence, Mass., for the construction of the extension of water purification works, being Contract No. 17 of the Improvement of Water Supply. The work to be done includes the construction of foundations, channels, filters, piping, building, including lighting and heating, the same forming an extension of the existing plant for purifying Maumee River water. The extension will consist of 14 filters and appurtenances and must be capable of purifying and delivering 14,000,000 gallons of water per day. W. G. Clark is Engr., The Spitzer, Toledo. Bids were opened on Feb. 14. List of bidders noted on Feb. 23.

Bids will be received by the Board of Public Service, F. Shane, Secy., until March 3 for furnishing and delivering f. o. b. Toledo, 1,000 tons of 4 to 12-in. c.-i. pipe, special castings, in sizes and amounts as required during the year.

*GRAND RAPIDS, MICH.—Bids will be received at the office of the Board of Public Works until 8 p. m., March 9, for furnishing cast iron water pipe, specials, valves and hydrants for the city, for the year ending Dec. 31, 1911, according to the plans and specifications on file at the office of the board. Samuel A. Freshney is Secy. and Gen. Mgr.

SAINT CHARLES, MICH.—Bids will be received by Charles Krause, Village Pres., until March 9 for furnishing material and machinery of every description required for water-works and power and electric plant, f. o. b. cars St. Charles and for any and all parts of the work. George C. and Arthur M. Morgan are Engrs., 169 Jackson Boulevard, Chicago, Ill.

WAYNE, MICH.—The Village Council on Feb. 10 voted to construct a water plant.

FLORA, ILL.—The cost of constructing the proposed water-works and sewer system of vitrified pipe, has been estimated at $87,000. J. S. Spoker of Vincennes, Ind., is Engr.

WHEATON, ILL.—Bids will be received by the city until March 6, for a 100,000-gallon reservoir and for furnishing a 60-HP. gas engine, etc.

SHAWNEE, WIS.—Bids will be received until March 7 by the Electric Light & Water Works Committee, care of D. E. Westcott, City Clk., for furnishing and laying water pipes and for furnishing and setting **hydrants**

SPARTA, WIS.—We are officially advised that ten bids were received on Feb. 20 by the city for one 1,500,000-gallon, high-duty pumping engine. The contract was awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., at $6,950. C. H. Gregory is Supt. & Secy. W-Wks.

*BOONE, IOWA.—Bids will be received until 7.30 p. m., March 8, at the office of Otto Hile, City Clk., for constructing watermains from the Des Moines River pumping station to the city pumping station, together with suction mains at the river station. Plans and specifications for the work are now on file in the offices of K. C. Kastberg, City Engr., and Otto Hile, City Clk.

MADISON LAKE, MINN.—Bids will be received by the Village Council until 6 p. m., March 6, for drilling an 8-in. well, to an approximate depth of 200 to 300 ft. John Wilson is Engr., Mankato, Minn.

ST. PAUL, MINN.—The Water Board has awarded the contract for pumping equipment for the McCarron's Lake wells to the ROBINSON, CARY & SANDS CO., of St. Paul, at $26,812. List of bidders noted on Feb. 23.

FAIRBURY, NEB.—Bids will be received until March 9 by B. Z. Millikan, City Clk., for extending the water-works and electric lighting plant. Separate bids will be received for furnishing f. o. b. cars Fairbury, the following: C. I. pipe and special castings; hydrants and valves; generator, switchboard and 100-KW. steam turbine set; surface condenser and feed water heater; furnishing and installing a 2,000,000-gallon Meyer gear pump. Burns & McDonnell are Engrs., 803 Scarritt Bldg., Kansas City, Mo.

GETTYSBURG, S. DAK.—Bids will be received until 7 p. m., March 20, by F. M. Wright, City Audr., Gettysburg, for labor and material for constructing water-works, separate bids to be received for (a) furnishing labor and material, except hydrants, valves and tank and tower; (b) furnishing hydrants and valves, (c) furnishing and erecting tower and tank of 40,000,000-gallons capacity on 100-ft. tower. Tuttle & Pike are Engrs., Shubert Theatre Bldg., Kansas City, Mo.

*BOZEMAN, MONT.—We are officially advised that bids were received on Feb. 16, by A. M. Brandonburg, City Clk., for the excavation required to enlarge the reservoir of the Bozeman city water-works and increasing the size of the dam and banks with the excavated material; and for laying concrete on the sides, slopes and bottom of the enlarged reservoir of the Bozeman city waterworks, amounting to about 4,846 sq. yds. S. BIRCH & SONS CONSTRUCTION CO. of Fargo, N. Dak., secured the contract for excavation work at $6,972. Bids on concrete work were rejected and new bids will be received until March 16. Will S. Hartman is City Engr.

GREAT FALLS, MONT.—The Council has let the contract to the AMERICAN CAST IRON PIPE CO., for 135 tons of 12-in. water pipe and specials at $6,116. The U. S. Cast Iron Pipe & Foundry Co. bid $6,220.

*LEWISTOWN, MONT.—Bids will be received by the city until 8 p. m., March 24, for furnishing approximately 50,000 ft. of c.-i. pipe of 130-lbs. pressure. Specifications are on file at the office of Engineering News, New York, also for specifications and blank form of bid, or other information, address P. A. Chase, City Clk., or O. F. Wasmansdorff, City Engr.

Bids will be received by the city until 8 p. m., March 24, for furnishing fire hydrants, valves, lead, jute and other materials. For specifications and blank form of bid, or other information, address P. A. Chase, City Clk., or O. F. Wasmansdorff, City Engr.

WEBB CITY, MO.—We are officially advised that bids were received by the city as follows on Feb. 14 for the construction of a reinforced concrete reservoir, of 1,500,000 gallons capacity: Redmond, Putnam & Co., Webb City, $14,850; O. B. Vanderpool, Joplin, Mo., $12,200; F. W. Keller, Webb City, $11,995; Oklahoma City Construction Co., Oklahoma City, Okla., $11,450; J. C. Barr & Co., Joplin, $11,444; S. M. Kerns, Denver, Colo., $9,990; Webb City Granolithic Co., Webb City, $9,975; F. W. Caulkins, Webb City, $9,676; Joseph Schneider, Monett, Mo., $8,495; J. O. Williams, Aurora, Mo., $7,400.

ALAMITO, TEX.—The Ambursen Hydraulic Construction Co., 176 Federal St., Boston, has been employed as Consult. Engr., on a dam for the St. Stephens Land & Irrigation Co., which is developing a project on Alamita Creek in Texas. It is reported that the dam will be 75 ft. high and 1,000 ft. long in its immediate construction, but is so arranged that it can be raised to a height of 100 ft. to meet future requirements.

CORPUS CHRISTI, TEX.—See item under Miscellaneous: Causeway, Corpus Christi, Tex.

FORT SAM HOUSTON, TEX.—Bids will be received by P. W. Guiney, Constr. Q. M., U. S. A., until 11 a. m., March 21, for turnishing and installing, complete and in working order, one compound or triple-expansion pumping engine of a capacity of $1,000,000 gallons in 24 hours.

FORT WORTH, TEX.—The city awarded the contract to LITTLE & JUDSON of San Antonio, Tex., for drilling four artesian wells, ten inches in diameter. The wells will be bored below Trinity sands, which lie at an estimated depth of 1,100 to 1,200 ft. Estimated cost, about $5,500 each.

JACKSBORO, TEX.—The city has voted to issue $28,000 of bonds for the construction of a water-works system. N. Werenskiold is Consult. Engr., Dallas, Tex.

*SAN AUGUSTINE, TEX.—Bids will be received by the Mayor and City Council until March 21, for the purchase by the city of all material required in the construction of a water-works system, viz., electric motor or gasoline engine, triplex pump and steam pumps, boilers, heater, water-works pipe, valves and hydrants, tank and tower; also for drilling a deep well. Quantities and specifications may be had by addressing the O'Neil Engineering Co., Constructing and Superv. Engrs., 1503-08 Praetorian Bldg., Dallas, Tex.

SEGUIN, TEX.—The Seguin Water-Works Co., will extend its water distributing system, laying 6,000 ft. of 6-in. pipe; 2,000 ft. of 4-in. pipe and 1,000 ft. of 8-in. pipe. Twenty new fire plugs will also be installed.

TEMPLE, TEX.—The contract for the equipment of the proposed modern filtration plant to be installed here has been let to the PITTSBURG FILTER MFG. CO., of Pittsburg, Pa. The contract for the building and other work connected with the plant has been awarded to W. C. RETTIGER of Belton, Tex. The plant will cost $27,190, and will have a capacity of 2,000,000 every 24 hours. Noted on Feb. 9.

VICTORIA, TEX.—The City Council has decided to make extensions to the water distributing system.

MUSKOGEE, OKLA.—The citizens on Feb. 16 voted to issue $690,000 of bonds for the construction of water-works with twin pump and reservoir system, a sewer system and garbage crematory. T. P. Clonts is City Engr.

STONEWALL, OKLA.—Bonds for $30,000 have been voted by the city for the construction of water-works.

CANON CITY, COLO.—The City Council is considering laying a water main to Orchard Park to connect the park with the city water system.

COLORADO SPRINGS, COLO.—The city has engaged Hiram Phillips, Consult. Engr., Third National Bank Bldg., St. Louis, Mo., to prepare plans for improving the waterworks system. It is proposed to enlarge the rservoirs and strengthen the distributing system.

ALBUQUERQUE, N. MEX.—The City Council is considering laying a number of water mains in different streets of the city.

FORT BAYARD, N. MEX.—Bids will be received until 11 a. m., March 18, by Capt. J. R. McAndrews, Constr. Q. M., U. S. A., for furnishing, including installation, of one motor-driven submerged type centrifugal or impeller type pump, capacity not less than 200 gallons per min. Plans, specifications, blank proposals and other information furnished on application.

BURLEY, IDAHO.—We are officially advised that Louis C. Kelsey, Consult. Engr., 402 Dooly Bldg., Salt Lake City, Utah, has been engaged to design and supervise the construction of proposed new water system for the city. The work will include pumping plant and water tower.

PARK CITY, UTAH.—Bids will soon be asked by the City Council for the construction of a new municipal water system. J. W. Thompson is Pres.

COLVILLE, WASH.—Bids will be received until March 7 by A. Suneburn, City Clk., for furnishing to the city for its use, delivered f. o. b. Colville the following: 5,000 ft. of 2-in. galvanized pipe; 4,000 ft. ¾-in. galvanized pipe; two 4-in. iron gates; 16 2-in. iron gates; two 4-in. T's; three 2¼-in. T's.; twelve 2-in. T's. 30 ¾-in. lead joints; five 1-in. lead joints; 30 3½-ft. curb boxes; 50 ¾-in. curb cocks, Muller round way; three 1 × 8 tapping saddles; twelve 4 × ¾ tapping saddles; 24 2 × 6 tapping saddles; twelve ¾ × 6 tapping saddles.

*NORTH YAKIMA, WASH.—Bids will be received until 10 a. m., April 15, by the U. S. Reclamation Service, North Yakima, for constructing the Kachess dam and accessory structures near Easton, Wash. The work involves the excavation of about 345,000 cu. yds. of material, the placing of about 240,000 cu. yds. of embankment, 15,000 cu. yds. of riprap and paving 8,000 cu. yds. of concrete, and 300,000 lbs. of reinforcing steel, and other items necessary to complete the work.

SEATTLE, WASH.—See item under Light and Power Plants.

ALBANY, ORE.—An announcement has been made by D. C. Green, Mgr., of the Oregon Power Co., that a filtration system will be installed here. It is reported the construction of plant will be started at once.

WESTON, ORE.—At a cost of between $350,000 and $500,000, the dam and ditches of the Pine Creek Irrigation Co., near Weston, are to be constructed this year. It will provide water for thousands of acres of land near here, and will be in the nature of reclamation work. Six thousand acres of land have already been brought into the project. G. W. Proebstel, of Weston, is interested.

BENICIA, CAL.—The Southern Pacific Ry. Co. is considering the construction of a large pumping plant at Joyce, a station half way between Suisan and Benicia, for the purpose of supplying water for the tanks at Suisan, Benicia and intermediate stations.

DORRIS, CAL.—The citizens have voted to issue $12,500 of bonds for the construction of a municipal water system.

KINGSBURY, CAL.—Olmstead & Gillelen, Consult. Engrs., Wright and Callender Bldg., Los Angeles, have prepared plans for a municipal water system here. Bids for construction work will be taken shortly. The work will include the construction of a 60,000-gallon elevated steel tank pumping station, reservoirs, and laying 28,500 ft. of 4-in. and 2,600 ft. of 8-in. pipe. Estimated cost, $36,000.

MONROVIA, CAL.—We are officially advised that contracts for water main extensions have been awarded by the city as follows: To the CRANE CO. of Los Angeles, for furnishing the material necessary; to the B. R. DAVISSON CONSTRUCTION CO., of Monrovia.

ONTARIO, CAL.—The Board of City Trustees has awarded the following contracts, bids opened on Feb. 14, for the construction of the municipal water system; for riveted steel pipe and specials to WESTERN PIPE & STEEL CO., Los Angeles, at $16,398; screw pipe and specials to CRANE CO., Los Angeles, at $70,375; labor to JOSEPH CHUTUK, Los Angeles, at $18,882; contracts for pumping plants and reservoirs, will be awarded later. F. E. Trask is Engr., Laughlin Bldg., Los Angeles, Cal.

REDDING, CAL.—The Secretary of the Interior has awarded a conditional contract to the PACIFIC PORTLAND CEMENT CO., of Tolenas, Cal., for furnishing 6,000 bbls. of Portland cement for use in the Klamath irrigation project, Oregon-California.

SAN FRANCISCO, CAL.—We are officially advised that the city proposes to make waterworks, sewer and street improvements costing $3,000,000. Marsden Manson is City Engr.

SAN LUIS OBISPO, CAL.—The City Engineer has submitted plans and specifications for the construction of a new earthern reservoir with a capacity of 5,700,000 gallons of water. Bids for construction are asked.

SUISUN, CAL.—Haviland & Tibbets, Consult. Engrs., Alaska Commercial Bldg., San Francisco, Cal., are preparing plans for the proposed raise of eight feet in the reservoir dam of the municipal water system.

VALLEJO, CAL.—Bids will be received until March 13 by the Board of Public Works for furnishing 1,200 water meters. E. P. Noyes is City Engr.

RIDGETOWN, ONT.—F. W. Farcombe, C. E., London, Ont., has been instructed to prepare plans and estimates for the construction of a modern water-works system for the town.

WELLAND, ONT.—The Dominion Government at Ottawa has granted to the Water Commissioners of Welland a valuable water power privilege on the east side of the canal below the aqueduct, and the city will erect a large and modern water-works plant on the site. The power is to be obtained by the fall of the water from the canal to the river level. The new plant will have a 3,000,000 gallon pump and two water wheels. The old pumping station on the west side of the canal will be repaired and used as an auxiliary.

BATTLEFORD, SASK.—The town has decided to install a water-works system this spring. Estimated cost, $100,000.

MELVILLE, SASK.—The town is having plans prepared for the construction of a water system. J. L. White of Sioux City, S. Dak., is in charge of the work. Address Leon Benoit, Melville.

SOURIS, MAN.—Bids will be received until March 20, by V. H. Williams, Town Engr. for the following work to be done during 1911 season: excavating, laying and back filling, for approximately 31,500 ft. of standard c.-i. water pipe, and a similar amount of vitrified sewer pipe; also for similar work for 70 fire hydrants, manholes and the construction of a brick building 60 ft. by 40 ft. by 14 ft., with concrete foundations, including all necessary machinery, pumps, etc.

GLEICHEN, ALTA.—Bids will be received until March 16 by B. S. Corey, Secy.-Treas., for drilling and casing an 8-in. well; furnishing and erecting an elevated steel tank; furnishing about 60 tons of c.-i. pipe and specials, or alternatively an equivalent quantity of steel pipe; gate valves and fire hydrants, and 3,400 ft. of vitrified tile sewer pipe, and manhole castings.

KERRISDALE, B. C.—Bids will be received until 5 p. m., March 6, by the Corporation of the Municipality of Point Grey, addressed to H. Floyd, C. M. C., Kerrisdale, for (a) steel pipes, valves, hydrants and specials castings; (b) for hauling the same to the different sites in the municipality; (c) for excavating and refilling trenches and laying and pointing about 38 miles of pipes, ranging in diameter from 25 to 4-in. Specification, schedule of quantities and forms of proposal may be seen at the office of Cleveland & Cameron, Engrs., 506 Winch Bldg., Vancouver, B. C.

VANCOUVER, B. C.—Bids will be received until March 22, by the city for the supply of water pipe, fire hydrants, valves and pig lead for the city.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

NEW BRITAIN, CONN.—Bids for furnishing sewer pipe to the city for the coming year have been received by the Board of Public Works, as follows: A. A. Lyman 78¼% off list price; New Britain Lumber & Coal Co., 77.7% off list, breakage not allowed on 25 to 30 cars; City Coal & Wood Co., 10-in. to 24-in.—79.5% off, 8-in.—80.75% off, 2% off 10 days; Berry & Ferguson, Boston, Mass., 8-in. to 24-in.—80% off, 2% off 10 days; Warner, Miller Co., New Haven, Conn., 10-in. to 24-in.—79¼% off, 8-in.—80¼% off, 2% off 10 days. Contract has not yet been awarded.

*STAMFORD, CONN.—Bids will be received by Joseph H. Provost, City Clk., until 8 p. m., March 20, for furnishing materials and constructing certain sewers. For details see advertisement in this issue.

WATERBURY, CONN.—The Board of Aldermen have voted to ask the State Legislature for permission to increase the bond issue for trunk sewers from $100,000 to $300,000.

TROY, N. Y.—Specifications have been approved for the erection of the new Rensselaer County jail at Troy, N. Y. Bids will be advertised for soon for whole or part of the construction. Lansdale B. Green is Chr. of Com. The estimated cost is about $112,000.

UTICA, N. Y.—The Common Council passed a resolution ordering plans for a sewer in Warren Ave. from Holland Ave. to Genesee St. City Engineer was directed to investigate the advisability of constructing a sewer in Lindent St. from West Ave. to plant of Huron Mfg. Co.

NEWARK, N. J.—The Board of Street and Water Commissioners will receive bids for the construction of pipe sewers in the following streets, until 3:30 p. m. March 9: South 13th St. sewer between the terminus of the present sewer and Woodland Ave; Hawthorne Ave. sewer between Jelliff Ave and Peshine Ave and from the terminus of the present sewer 120 ft. west of Belmont Ave. to Badger Ave., and in South Orange Ave from South 10th St. to Ashland St., also Chancellor Ave. from the terminus of the present sewer 150 ft. west of Hedden St. westerly 440 ft.

BALTIMORE, MD.—Bids will be received until March 15 by the Board of Awards, at the office of J. Sewell Thomas, City Register, City Hall, Baltimore, for the construction of storm water drains, Storm Water Contract No. 12. The following are the approximate quantities: 1,270 ft. 87-in. Horse Shoe Drain, 450 ft. 14-in 7-in 6 Rectangular Drain, 28 ft. 96-in. Horse Shoe Drain, 1,640 ft. 36-in. to 30-in. Concrete and Brick Drains, 4,100 ft. 24-in. to 15-in. T. C. Pipe Drains, 1,690 ft. Inlet Connections, 71 Inlets, 30 Manholes, 2,875 cu. yds. Concrete, 230 cu. yds. Brick Masonry, 110,000 lbs. Steel Reinforcement. J. Barry Mahool is Pres. of Board of Awards.

CAMBRIDGE, MD.—See item under "Sts. & Rds."

WASHINGTON, D. C.—The following bid was received at the office of the District Commissioners on Feb. 21 for the construction of sewers in the District of Columbia: Warren F. Brenizer, Washington, D. C., for Georgia Ave. Trunk Sewer.—Ordinary excavation 50 cts.; concrete masonry, $6.40; sewer brick masonry, $20.50; sewer brick masonry, $13.50. Sewers in the Vicinity of Potomac Heights Subdivision.—Ordinary excavation, 47; concrete masonry, $7.80; sewer brick masonry, $13.50; sewer pipe, 18 in., 80 cts.; 12 in., 60 cts.; 10 in., 50 cts.

JACKSONVILLE, FLA.—Bids will be received until 3 p. m. March 15 for labor and material necessary to construct 250 ft. of 12-in. and 940 ft. of 10-in. cast-iron sewer pipe; laying 600 ft. of 10-in. and 13,400 ft. of 8-in. terra-cotta sewer pipe, together with "Y" branches, and building manholes; also for furnishing materials and building 500 ft. of 30-in. and 300 ft. of 24-in. circular brick drains, laying 765 ft. of 12-in. and 2,610 ft. of 15-in. pipe drains, and building manholes. R. N. Ellis, Jacksonville, is Supt.

*LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage, Equitable Bldg., Louisville, Ky., for the construction of the "Fourth St.," Twenty-eighth St., and Cedar St. sewers until noon, March 24. Plans and specifications may be obtained at the office of Metcalf & Eddy, 14 Beacon St., Boston, Mass. Charles P. Weaver is Secy. and Treas.

ELKHART, IND.—See item under "Sts. & Rds."

DETROIT, MICH.—The Common Council of the city of Detroit, at their meeting on Feb. 21, directed the Dept. of Public Works, J. J. Hearer, Comr., 104 City Hall, to advertise for proposals for constructing the following lateral sewers: Lateral Sewer No. 2179 in alley bounded by Grand River, Clifford, Park Place and Bagely Ave.; estimated cost per lin. ft., $4.00. Lateral Sewer No. 2194 in alley in block bounded by Moran, Ellery, Kirby and Ferry Aves.; estimated cost per lin. ft., $1.20. Lateral Sewer No. 2195 in block bounded by Moran, Ellery, Ferry and Palmer Aves.; estimated cost per lin. ft., $1.20. Lateral Sewer No. 2196 in block bounded by Wildmere, Lawton, Hogarth and Whitney Sts.; estimated cost per lin. ft., $1.50. Lateral Sewer No. 2197 in alley in blocks bounded by Beaubien, Oakland, Alger and King Aves.; estimated cost per lin. ft., $1.25. Lateral Sewer No. 2198 in alley in block bounded by Lawton, Linwood, Hogarth and Whitney Sts.; estimated cost per lin. ft., $1.50. Lateral Sewer No. 2199 in alley in block bounded by Martin, Livernois, Southern and Dennis Sts.; estimated cost per lin. ft., $1.90. From James E. Hamilton, 161 Charlotte Ave., Detroit. Sewers (cont.), Detroit, Mich.

The Common Council of the city of Detroit also approved the following contracts: For new Fairview Station Inlet and Outlet, awarded to LANGLEY & JAYNES, Detroit, Mich., for $19,200.

Contracts were also awarded for the following vitrified crock lateral sewers: To T. G. WHITTAKER, 2281 West Grand Blvd., for the construction of Lateral Sewers Nos. 2183, 2190, 2192 and 2193; J. A. MERCIER, 211 Hammond Bldg., for the construction of Lateral Sewers Nos. 2184 and 2185; WM. PORATH, 5 Rich St., for the construction of Lateral Sewers Nos. 2176 and 2191, and WM. BLANCK, 26 Waverly Ave., for the construction of Lateral Sewers Nos. 2126 and 2134.

ANTIGO, WIS.—At the April election the proposition to bond the city for $50,000 for sewerage extensions and improvements will be voted upon.

SHAWANO, WIS.—Bids will be received until 8 p. m. March 7 by E. Wescott, City Clk., for the construction of sewers in District Nos. One and Two. Plans and specifications at the office of City Clk.

MOUNT VERNON, IOWA.—Bids were received as follows by the City of Mt. Vernon, Feb. 21, for installation of 7⅛ miles of sanitary sewers, 6 to 15-in. pipe, wih necessary accessories a septic tank and filter beds (a) town sewers, (b) outlet sewers, (c) septic tank and dosing chamber, (d) filter beds): HANNING-VINEYARD Co., Evansville, Ind., (a) $18,818, (b) $3,288 (c) $2,634, (d) $3,851 (awarded contract); Geo. M. King Construction Co., Des Moines, Iowa, (a) $20,935; Independent Construction Co., Davenport, Iowa, (a) $23,620, (b) $3,525, (c) $3,344, (d) $3,322; Blackhawk Construction Co., Waterloo, Iowa, (a) $23,632; J. C. Griffith & J. F. Whalen, Anamosa, Iowa, (a) $24,802, (b) $3,729, (d) $3,728; Dearborn & Jackson, Cedar Rapids, Iowa, (a) $25,443 (b) $3,127, (c) $3,782, (d) $4,840; Lytle Construction Co., Sioux City, Iowa, (a) $25,708, (b) $3,469, (c) $3,670, (d) $3,727; J. W. Turner Improvement Co., Des Moines, Iowa, (a) $25,946; John Brogan, Green Bay, Wis., (a) $26,093, (b) $4,256, (c) $3,433, (d) $2,981; J. R. McCormick, Ft. Dodge, Iowa, (a) $26,295, (b) $4,301, (c) $3,587, (d) $3,166; M. A. Camery, Harlan, Iowa, (a) $26,550, (b) $3,500, (c) $4,257, (d) $4,785; W. D. Yeager Co., Cedar Rapids, Iowa, (a) $27,306, (b) $3,516, (c) $3,596, (d) $3,888; R. C. De la Hunt, Cedar Rapids, Iowa, $28,677, (b) $3,702, (c) $3,670, (d) $3,934; C. B. McNamera & Co., Dubuque, Iowa, (a) $29,820, (b) $3,944, (c) $3,913, (d) $3,564; Guy E. Smith, Indianola, Iowa, (a) $32,098, (b) $4,069, (c) $4,114, (d) $3,463; Thomas Carey & Son, Clinton, Iowa, (b) $3,703, (c) $3,413, (d) $4,065; W. W. Cooley, Clinton, Iowa, (b) $3,838, (c) $3,554, (d) $3,525; Engineer's estimate, (a) $21,987, (b) $3,588, (c) $3,046, (d) $2,956.

SIGOURNEY, IOWA.—Bids have been received as follows by the City Clerk for the construction of sanitary sewers: W. J. Lana, Harlan, Iowa, $41,326; John W. Scott, Ottumwa, Iowa, $55,877; Zitteral & Sullivan, Webster City, Iowa, $44,819; Henry Rees, Quincy, Ill., $46,474; J. W. Turner Imp. Co., Des Moines, Iowa, $45,932; Blackhawk Construction Co., Waterloo, Iowa, $51,246; M. A. Camery, Harlan, Iowa, $42,231; Hamilton Brothers, Chicago, Ill., $49,219; Omaha Const. Co., Omaha, Neb., $43,977; Bash & Grey, Joplin, Mo., $39,741; Dearborn & Jackson, Cedar Rapids, Iowa, $50,253; McGuire & Stanton, Leavenworth, Kan., $44,112; C. R. McKay, Omaha, Neb., $46,279; George M. King, Des Moines, Iowa, $33,447; Burlington Construction Co., Burlington, Iowa, $49,776.

TRACY, MINN.—Bids will be received by L. J. Fitch, City Recorder, until 8 p. m., March 9, for the construction of a sewer here. Plans and specifications may be obtained at the office of City Recorder.

ST. LOUIS, MO.—The following contracts were awarded on Feb. 14 for the construction of the Forest Park foul water sewer: Section 1, R. D. SALISBURY, Victoria Bldg., St. Louis, $18,069, Sections 2 and 3, WM. F. RILEY, Victoria Bldg., St. Louis, $21,960; Section 4, REEVES & SKINNER MACHINERY CO., St. Louis, $4,776.

ST. LOUIS, MO.—The following bids have been received by H. R. Fardwell, Sewer Comr., 311 City Hall, St. Louis, Mo.: FRUIN & COLNON CONTRACTING CO., Laclede Bldg., St. Louis, Mo., $434,354 (awarded contract); Heman Construction Co., 444 South Theresa Ave., $508,722; Athans Construction Co., $441,666; Bambrick Brothers Construction Co., 5229 St. Louis Ave., $448,993; Burke Brothers, $461,479; Joseph J. Cooney Construction Co., 1221 Wright Bldg., $442,725; Hill O'Meara Construction Co., Syndicate Trust Bldg., $441,396.

CLEBURNE, TEX.—The Cleburne Sewerage Co. will make important extensions to its sewer system here. The City Council is also considering the matter of ordering an election to construct a sewer system in the western part of the town.

DALLAS, TEX.—JOHN C. UNDERWOOD has been awarded the contract by the Board of Commisioners of Dallas for the construction of a large sanitary sewer through South Dallas. The work will cost about $32,000.

LUBBOCK, TEX.—The town of Lubbock has issued $55,000 in bonds for the construction of a sewer system, and $25,000 in bonds for installing a water-works plant and distributing system. F. E. Wheelock is Mayor.

ROCKDALE, TEX.—The City Council has taken preliminary steps towards issuing bonds for the construction of a modern and complete sewer system for the town of Rockdale.

*CLINTON, OKLA.—Bids were received as follows Feb. 21 by C. G. Welch, Mayor, for the construction of 26,200 ft. of 8-in. lateral sewers of the first quality vitrified pipe, together with manholes, lampholes and other appurtenances: Hunter & Hunter, $30,535; E. M. Eby, $31,614; Stone Construction Co., $31,262; Connelly Const. Co., $34,706; JOHN W. ROOKS, $23,781 (awarded contract).

FORT LOGAN, COLO.—Bids will be received until March 14 by Capt. Chase Doster, Constr. Q. M., U. S. A., Fort Logan, Colo., for the construction of a sewerage disposal plant and the extensions necessary in the remodeling, etc., of present sewer system. The work comprises the following: 1.—Sewer system complete to Hydrolitic Tanks, using concrete posts and steel pipe for those parts over ravines. (Drawing 4-1037.) 2.—Sewer system complete to Hydrolitic Tanks, using wood trestle and cast-iron pipe for those parts over ravines. (Drawing 4-1037-A.) 3.—Disposal plant complete, comprising tanks, filters and sludge bed, with all piping to and from the various parts of the works; also effluent discharge pipe from filter to creek; also water-supply pipe from water main to tanks, filter and sludge bed. A with 4-in. c.-i. water connections. B with 3-in. c.-i. water connections. C with 3-in. c.-i. water connections. The approximate cost is $40,000. Address Capt. Chase Doster, Constr. Q. M., U. S. A.

CHICO, CAL.—The City Trustees have awarded the contract to JOHN HEAFEY, Oakland, for the construction of a storm water sewer system in Chico. The following bids were received for the work: John Heafey, $18,500; Federal Construction Co., $24,697; C. D. Vincent, $24,368; Contra Costa Construction Co., $20,423; Chico Construction Co., $26,676.

LONG BEACH, CAL.—The following bids were received by the Board of Public Works for sewer construction in Second and other streets: Peter Grbovach, $7,900; S. Zarubica, $7,889.50, both of Los Angeles; Frank H. Thomas, $10,963; White & Gaskill, $15,952.

LONG BEACH, CAL.—City Engineer Dewey has completed preliminary plans and estimates of the cost of constructing a complete sewer system for the city of Long Beach, and the report will be acted upon by the City Council soon. The project is one of the most extensive ever undertaken in the southwest, involving the laying of more than 150 miles of pipe, at a cost of $400,000. The work contemplates the extension of the municipal sewer system to all parts of the city. The location of the outfall sewer will be changed and enlarged so that it will empty far into the ocean.

SAN FRANCISCO, CAL.—See item under Water Supply—Irrigation.

CRANBROOK, B. C.—The City Council has voted $100,000 for the installation of a sewerage system. Plans will be prepared at once.

HAMILTON, ONT.—Bids will be received until March 9 by George H. Lees, Chn. Bd. of Control, for the construction of the following sewers: Belview Ave., from Cannon St. to Primrose Ave.; Carrick Ave., from King to Main Sts.; Dunsmure Ave., from Fairholt Road to Carrick Ave.; Kensington Ave., from Barton to Cannon Sts.; King St., from Lottridge St. to Garfield Ave.; Rosslyn Ave., from Barton to Cannon Sts.; Central Ave., from Norway Ave. to Prospect St.; Lorne Ave., from Central to Cumberland Aves.; Glendale Ave., from Barton St. to end of Glendale Ave.; Blake St., from Maple to Cumberland Aves.; Maple Ave., from Springer Ave. to Blake St.; Boylestone Ave., from Barton St. to end of Boylestone Ave.; Balmoral Ave., from Cannon to Barton Sts.; Grosvenor St., from Cannon to Barton Sts.; Barton St., from Trolley St. to Robins Ave. Plans and specifications and other information can be obtained at the office of the City Engr.

SOURIS, MAN.—Bids will be received until 6 p. m., March 20, for sewer work, including the following: Excavation, laying and backfilling for approximately 31,500 ft. of standard vitrified sewer pipe, 8-in. to 20-in., and all necessary T's, Y's, etc.; excavation, laying and backfilling for approximately 31,500 ft. of standard cast-iron water pipe, 4-in. to 12-in., and all necessary T's, reducers, etc., also setting gate valves and valve boxes; excavation, setting and backfilling for 70 standard fire hydrants; construction of approximately 75 manholes, and setting covers and frame of same; the construction of a brick building 60 × 40 × 14 ft., on concrete foundation, together with all necessary machinery, consisting of compression tanks, gasoline engines and pumps, etc. Plans and specifications may be obtained from V. H. Williams, Town Engr.

GARBAGE DISPOSAL.

MANKATO, MINN.—Bids will be received by the city until 10 a. m., March 13, for furnishing two street sprinklers, 600-gallon capacity. A. H. Scherer is City Clk.

LOS ANGELES, CAL.—The V. D. Reduction Co. has been organized and incorporated here with a capital stock of $500,000. The directors are: C. A. Alexander, L. C. Lynch and M. L. Creamer.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS. — We are officially advised that bids were received, on Feb. 20, by Capt. A. M. Miller, Const. Q. M., for constructing walks at Fort Andrews, as follows: Thomas Fitzgibbons, $6,630; C. Bevilacqua, $7,228; Frank Williams, $7,263; James H. Fannon, $7,900; Thomas Whelan & Co., $8,275; L. C. Carchia, $8,508; John A. Costello, $8,719; Antony Cetalo, $9,700; G. Porter, $11,500. The contract for the work will be awarded by the Quartermaster-General.

WESTFIELD, MASS.—We are officially advised that the contract for repairing Elm St. with granite block pavement has been awarded to DANIEL O'CONNELL'S SONS, Holyoke, Mass., at $35,934. Other bidders were: James B. O'Rourke & Co., Boston, Mass., $37,508; M. A. Cavanaugh, Boston, $37,524; A. J. Langerfield, Hartford, Conn., $37,647; E. B. Roberts, Boston, $55,156; Field, Barker & Underwood, Inc., Philadelphia, Pa., $40,091; F. T. Ley & Co., Springfield, Mass., $40,707; William J. Barry, Boston, $42,858; Hassam Paving Co., Worcester, Mass., $45,981; Edward Humphreyville, Westfield, $45,228; C. W. Dolloff & Co., Boston, $50,541. Noted on Feb. 2. For item bids see "Contract Prices."

ALBANY, N. Y.—The bids received by Charles E. Treman, Supt. Pub. Wks., for the construction of highways adjacent to the Delta Reservoir in Oneida County, on Feb. 27, were: James Anderson, Caledonia, N. Y., $51,037; Theodore C. Hailes, Jr., Albany, N. Y., $40,834; Cunningham-Woodard Co., Hudson Falls, N. Y., $47,712. Noted on Feb. 9.

*ALBANY, N. Y.—Bids will be received by the State Highway Commission as follows: Until 1 p. m., March 20, for improving in Albany County, Highway No. 790, Cohoes City Line-Boghts Corner Road, 2.17 miles; Albany County, Highway No. 378, Shakers-Watervliet Road, 6.40 miles; Broome County, Highway No. 858, Whitneys Point-Upper Lisle Road, 4.27 miles; Cattaraugus County, Highway No. 695, Otto-Cattaraugus Road, 1.21 miles; Cattaraugus County, Highway No. 697, Otto-East Otto, Section 11, 2.27 miles; Cayuga County, Highway No. 687, Fair Haven-Sterling-Martville Road, 5.30 miles; Chautauqua County, Highway No. 873, Brockten-Stockton Road, 2.93 miles; Chenango County Highway No. 666, Plymouth-Kirk Road, 4.90 miles; Clinton County, Highway No. 777, Plattsburg-Cadyville Road, 4.83 miles; Columbia County, Highway No. 763, Hollowville-Craryville road, 7.14 miles; Columbia County, Highway No. 5072, Livingston-Hudson Road, Part I, 3.60 miles; Columbia County, Highway No. 5073, Livingston-Hudson Road, Part II, 5.10 miles; Columbia County, Highway No. 5074, Schodack Center-Valatie road, Part IV, 4.30 miles; Dutchess County, Highway No. 712, Amenia-Sharon Station Road, 2.29 miles; Franklin County, Highway No. 884, Malone-Fort Covington Road, Part I, 3.58 miles; Franklin County, Highway No. 885, Moira-South Bombay Road, 8.58 miles; Franklin County, Highway No. 5076, Malone-Moira Road, 5.22 miles; Jefferson County, Highway No. 625, Theresa-Antwerp Road, Part II, 5.37 miles; Jefferson County, Highway No. 626, Burrs Mills-South Champion Road, 4.56 miles; Rensselaer County, Highway No. 659, Brunswick Center, Lansingburg Road, 5.07 miles; Rensselaer County, Highway No. 679, West Stephentown-Stephentown Center road, 4.14 miles; Rensselaer County, Highway No. 680, Stephentown Center-Massachusetts Road, 3.92 miles; Rensselaer County, Highway No. 5084, Schodack Center; Columbia County, Highway No. 5072 (extension), Livingston-Hudson Road, Parts I and II, 8.7 miles; Columbia and Rensselaer Counties, Highway No. 5074 (extension), Schodack Center-Valatie Road, Parts 3 and 4, 7.2 miles.

Until 1 p. m., March 22, for improving in Greene County, Highway No. 886, Lexington-Prattsville Road, 4.19 miles; Greene County, Highway No. 887, South Cairo-Cairo Road, 8.15 miles; Genesee County, Highway No. 5090, East Pembroke-Pembroke Road, Part II, 4.77 miles; Hamilton County, Highway No. 874, Nobleboro-Morehouseville road, 5 miles; Lewis County, Highway No. 5077, Martinsburg-Turin Road, 3.08 miles; Madison County, Highway No. 883, De Ruyter-Otselic Road, Part I, 2.14 miles; Madison County, Highway No. 5078, Wampville-Oneida Castle Road, 2.56 miles; Montgomery County, Highway No. 409, Fort Plain-Starkville Road, 6.22 miles; Oneida County, Highway No. 837, Waterville-Deansboro Road, 4.77 miles; Oneida County, Highway No. 838, Saquoit Road, .50 mile; Oneida County, Highway No. 839, Augusta-Knoxboro Road, 1.21 miles; Oneida County, Highway No. 840, North Brookfield-Waterville Road, 4.37 miles; Oneida County, Highway No. 877, Clinton Village Road, .97 mile; Oneida County, Highway No. 5079, Clayville Village Road, 1.44 miles; Onondaga County, Highway No. 556, Manlius-Chittenango Road, 3.22 miles; Onondaga Coun[illegible] Highway No. 557, Vesper-South Onon[illegible] Road, 6.19 miles; Onondaga County, [illegible]way No. 6[illegible] Jordan-Cross Lake Road, [illegible] miles; Onondaga County, Highway [illegible], Pompey-Jamesville Road, 5.97 miles[illegible]ndaga County, Highway No. 5080, [illegible]ge Village-Camillus Road, Part I, 3.01 [illegible]les; Oswego County, Highway No. 772, [illegible]on-Hannibal Road, Part I, 3.67 miles; [illegible]ego County, Highway No. 825, Fulton-O[illegible] Road, 4.51 miles; Oswego County, H[illegible]y No. 826, Pulaski-Orwell Road, 5.94 [illegible]; Oswego County, Highway No. 508[illegible] Mexico-Union Square Road, Part II, 2.9[illegible]es; Oswego County, Highway No. 508[illegible]ion Square-Pulaski Road, Part I, 2.61 [illegible]

Until 1 p. m., March 21, [illegible]mproving in Ontario County, Highway No. [illegible], Cheshire-McJennetts Hill Road, 7.04 [illegible]; Ontario County, Highway No. 50[illegible] Lima-East Bloomfield Road, Part II, [illegible] miles; Otsego County, Highway No. 8[illegible]est Exeter-West Winfield Road, 5.44 m[illegible] St. Lawrence County, Highway No. [illegible] Elmsdale-Gouverneur Road, 5.83 miles[illegible] Lawrence County, Highway No. 876, B[illegible] Corners-Elmsdale Road, 3.82 miles; [illegible] Lawrence County, Highway No. 878, Og[illegible]burg-Morristown Road, Part I, 6.74 m[illegible] Saratoga County, Highway No. 741, Sa[illegible]a-Corinth Road, 4.06 miles; Saratoga [illegible]y, Highway No. 815, Corinth-Hadley [illegible]oad, 6.22 miles; Schenectady County, [illegible]way No. 793, Schenectady-Vischers Fer[illegible]Road, 2.34 miles; Schenectady County, [illegible]way No. 880, Schenectady-Duanesburg R[illegible] Part I, 3.79 miles; Schoharie County, [illegible]way No. 5036, Gallupville-Vrosman Road[illegible] miles; Seneca County, Highway No. [illegible] Center Road-Fayette Road, Part I, 3.19 [illegible]es; Seneca County, Highway No. 508[illegible] Geneva-Waterloo Road, 5.95 miles; Wa[illegible] County, Highway No. 5088, Riverside[illegible]vertown Road, Part II, 1.53 miles; Washin[illegible]n County, Highway No. 802, Smiths [illegible]n-Hartford Road, 5.26; Wayne County Highway No. 5089, Clyde-Savannah Road, Part I, 4.55 miles; Cortland County, Highway No. 881, Blodgetts Mills-Cortland Road, 1.79 miles; Cortland County, Highway No. 882, Scott-Spafford Road, 2.55 miles; [illegible]ortland County, Highway No. 5075, Cortland City-Clinton Ave. Road, .53 mile; [illegible] Perry Hooker is Chairman Committee.

*MINEOLA (L. I.), N. Y.—The contract for constructing the Babylon-Hempstead Turnpike and Centennial has been awarded to TWOMBLY & ELDERT, of Jamaica, N. Y., at $40,017.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., March 13, for curbing, paving, grading, etc., several streets. Plans and specifications are on file at the office of the Borough President.

NEW YORK, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., March 10, for regulating and repaving portions of various streets.

NEW YORK, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, March 7, for furnishing all the labor and materials required for regulating, grading and paving the South St. ferry approach and for constructing subway ducts at the St. George ferry terminal, Staten Island.

YORKVILLE, N. Y.—This village and the state have agreed to pave Main St. at a joint expense. The village's share of the cost will be $19,500. W. E. Cooper, E. M. Coughlin, W. A. Armstrong are interested.

ATLANTIC CITY, N. J.—We are officially advised that the contracts for paving Albany and Pennsylvania Aves. were awarded on Feb. 7, to the UNITED PAVING CO., of Atlantic City, at $66,157, and $569,940 respectively. E. D. Rightmire is City Engr.

BERNARDSVILLE, N. J.—Bids will be received by the Township Committee, Joseph B. Kronenberg, Township Clk., until 2 p. m., March 7, for 1,790 lin. ft. road construction, and 3,599 sq. yds. macadamizing.

IRVINGTON, N. J.—Bids will be received by M. Stockman, Town Clk., until 8 p. m., March 6, for constructing telford pavement on Myrtle Ave. and Park Pl.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners, until March 9, for paving the following streets: Astor St., from Avenue C to New Jersey R. R. Ave., with brick; Seymour Ave., from Runyon St. to Hawthorne Ave., with brick; West End Ave., from Laurel Pl. to South Orange Ave., with asphalt block; Camp Alley from Camp St southerly 375 ft., with brick; Sheridan Ave., from Peshine Ave. to Hunterdon St., with brick. All of the above pavements to be laid on a 6-in. concrete foundation. M. R. Sherrerd is City Engr.

*MEADVILLE, PA.—Bids will be received by the Select and Common Councils of the city of Meadville until 8 p. m., March 15, for grading, curbing and paving Market Alley from the east line of Market St. to the west line of Park Ave. Plans and specifications ma ybe obtained at the City Engr.'s office. Fred C. Kribort is City Clk.

BALTIMORE, MD.—Plans have been approved for widening Belair Road from North Ave. to the city limits, at an estimated cost of $70,000. Plans have been prepared for constructing a section of boulevard between Druid Hill and Gwynn Falls Park, at a cost of $80,000. James H. Smith is Pres. Comrs. for Opening Streets.

CAMBRIDGE, MD.—Bids will be received by the Cambridge Street Improvement Commission, Henry Lloyd, Chn., until 11 a. m., April 6, for grading, curbing and paving various streets. The work includes: 16,876 sq. yds. vitrified fire clay or shale block pavement, 2,600 sq. yds. granolithic or concrete gutter, 6,400 lin. ft. straight concrete curb, 4,150 lin. ft. reinforced straight concrete curb (corner bar), 1733 lin. ft. reinforced curved concrete curb, 32 storm-water inlets.

•PORTSMOUTH, VA.—Bids will be received at the office of L. P. Slater, City Clk., until noon, March 20, for the improvement of London St., from Water to Hatton Sts.; Dinwiddie St., from Boulevard to a point about 135 ft. south of Clifford St.; Effingham St., from Glasgow to County St., parked in the center, with roadway on each side; Harrison St., from Washington to Fourth St.; Fifth St., from Harrison to Fayette St. to West Gate of Navy Yard; First St., from the Causeway to Navy Yard Gate; Hatton St., from London Stfl to Naval Ave.; Naval Ave., from Hatton St. to Linden Ave. to North end; Ann St., from Hatton to Owens Sts., and from Hatton to Chestnut Sts.; Villa St. from West Park View bridge to Hospital Gate; and Green St., from North St. to the line of U. S. Naval Hospital property, in the City of Portsmouth.

Bids will be received for the following classes of pavement:

1st. Sheet Asphalt, on concrete foundation, with and without brick gutters, per sq. yd.

Street railway paving on above, per sq. yd.

2d. Vitrified Brick, on concrete foundation, per sq. yd.

3d. Vitrified Brick, on sand and gravel foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

4th. Bitulithic, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

5th. Filbertine, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

6th. Granite Curbing, per lineal ft.

7th. Old broken Curbing taken up and replaced by Curbing furnished and delivered by the city, per lineal ft.

8th. Concrete Curbing, per lineal ft.

ROANOKE, VA.—We are officially advised that bids will be asked some time this month for street paving estimated at $250,000. F. L. Gibboney is City Engr., and J. T. Trout, Supt. Paving.

TAZEWELL, VA.—The Commissioners ot Tazewell County are planning for extensive road improvements to be apportioned as follows: Maiden Spring district, $150,000; Jeffersonville district, $200,000; and Clark Fork district, $250,000.

FAYETTEVILE, N. C.—Bids will soon be received by the city for paving to cost $35,000. C. B. Ledbetter is Chn. St. Comn.

MEMPHIS, TENN.—Bids will be received by J. H. Weatherford, City Engr., until noon, March 14, for the construction of approximately 8,500 sq. yds. vitrified brick pavement; 80,000 sq. yds. tar macadam; and 10,000 sq. yds. wood block pavements.

LOUISVILLE, KY.—Bids will be received by the Board of Public Works until March 3, for paving with vitrified block Shelby and Mellwood Sts., the alley between Eighth and Ninth Sts., Magazine St., Broadway, alley between Ninth and Tenth Sts., Chestnut and Madison Sts., a total of 14,700 sq. yds. The estimated cost is $27,000.

LOUISVILLE, KY.—Bids will be received by the Board of Public Works until March 8, for paving Third, Portland, Jefferson, Garland, Dandridge and other streets with asphalt, at a total cost of $145,000. H. C. Nelson is City Clk.

CINCINNATI, OHIO.—Bids will be received by Stanley Struble, Pres. Bd. Comrs. of Hamilton County, until noon, March 17, for improving Third Ave., from Liberty St. to Gurley Road, in Green County. Fred Dreihs is Clk. of Bd.

CLEVELAND, OHIO.—See item under Bridges.

LORAIN, OHIO.—Bids will be received by L. B. Johnson, City Clk., until noon, March 7, for repairing and constructing sidewalks and crosswalks.

ANDERSON, IND.—Bids will be received by the Commisioners of Madison County until 10 a. m., March 20, for the construction of the following gravel roads: The Zeller and other gravel roads in Jackson, Lafayette and Anderson Townships, 13,480 ft. in length; the Alfred Rector road in Union and Anderson Townships, 21,404 ft. in length; the A. B. Summers gravel road in Monroe Township, 2,156 ft. in length; the D. M. Vermillion gravel road in Richland Township, 9,300 ft. in length; the Vermillion road No. 2, 1,759 ft. in length; the Lon Vasbinder road in Lafayette Township, 5,300 ft. in length; and the William Dillinger gravel road in Pipe Creek Township, 2,560 ft. in length. William T. Richards is County Euar.

ELKHART, IND.—The Board of Public Works is receiving bids for paving portions of the following streets with asphalt, brick, wooden block or bitulithic, laid on a 6-in. gravel or broken stone foundation: High St., East Marion St., Edwardsburg Ave., Lexington Ave., and several alleys; also for the construction of several local sewers.

FRANKLIN, IND.—Bids will be received by the Board of Commissioners of Johnson County until March 6, for furnishing 1,000 cu. yds. of crushed stone, delivered f. o. b. Whiteland, Ind., and 500 cu. yds., delivered f. o. b. Trafalgar, Ind., the stone to be about 1¼ in. square and suitable for use on the public highways. William B. Jennings is County Audr.

FRANKLIN, IND.—We are officially advised that the contract for grading and graveling the road between Johnson and Shelby Counties has been awarded to C. W. FOLGER & CO., Columbus, Ind., at $10,950. The other bidders were: T. H. Gilbert, Martinsville, Ind., $10,963; R. G. Porter, Edinburg, Ind., $10,962. Noted on Feb. 2.

GREENFIELD, IND.—Bids will be received by the Commissioners of Hancock County until 10 a. m., March 20, for grading a gravel road in Sugar Creek Township. C. H. Troy is County Audr.

HUNTINGTON, IND.—The Commissioners of Huntington County, have passed favorably on petitions for the construction of two gravel roads in Warren Township. Bids will be received as soon as plans and estimates are completed. John W. Weaver is County Audr.

LEBANON, IND.—Bids will be received by Edmon Connor, City Clk., until 7.30 p. m., March 13, for grading, graveling and sewering Baronne St.

LOGANSPORT, IND.—We are officially advised hat the contract for constructing the Sheety Road in Jefferson Township has been awarded to J. H. NULLS, Winfield, Ind., at $6,743. Noted on Jan. 19.

LOGANSPORT, IND.—Bids will be received by the Commissioners of Cass County, until 10 a. m., March 7, for the construction of gravel roads as follows: The Allen Price Road in Jefferson Township, the Oscar Wilson Road in Tipton Township, and the John W. Miller Road in Jackson Township. John E. Wallace is County Audr.

PAOLI, IND.—Bids will be received by the Commissioners of Orange County until 2 p. m., March 17, for the construction of a gravel road in Paoli Township. A. B. Ham is County Audr.

RICHMOND, IND.—Bids will be received by the city until March 9 for constructing 8,250 sq. yds. brick paving on North E St. B. A. Bescher is City Clk., and Fred R. Charles, City Engr.

WABASH, IND.—The Commissioners of Wabash County will receive bids until 1 p. m., March 7, for the construction of three gravel roads, one each in Noble, Chester and Paw Paw Townships. J. P. Noftzger is County Audr.

DETROIT, MICH. — The Department of Public Works, J. J. Haarer, Comr., has been directed to ask bids for paving, with cedar block on concrete foundation, using Medina, Berea or other approved curbing, the following streets: Spruce St., 26 ft. wide, from Wabash Ave. to 12th St., at an estimated cost of $4,920; and Hazel St., 24 ft. wide, from Wabash to National Ave., at $8,736.

Contracts for street paving have been awarded as follows: Superior St., from Russell St. to McDougal Ave., 26 ft. wide, with cedar block on concrete foundation, with Amherst curbing, to JULIUS PORATH, McGraw Bldg., Retroit, at $30,005; Third Ave., from Baltimore Ave. to M. Boulevard, 30 ft. wide, with cedar block on concrete foundation, with Amherst curbing, to JULIUS PORATH, at $4,854; Wreford Ave., from Grand River Ave. to 23d St., 26 ft. wide, with sheet asphalt on concrete foundation, with Amherst curbing, to JULIUS PORATH, at $5,889; Colbourn Pl., from Cass Ave. to Fourth Ave., 26 ft. wide, with cedar block on concrete foundation, with Amherst curbstone, to J. A. MERCIER, 211 Hammond Bldg., Detroit, at $9,571; Forsyth Ave., from Stanley to Dewey Ave., 26 ft. wide, with cedar block on concrete foundation, with Berea curbing, to J. A. MERCIER, at $9,792; McDougal Ave., fro mGuion St. to Jefferson Ave., 30 ft. wide, with cedar block on concrete foundation, with Amherst curbing, to T. E. CURRIE, McGraw Bldg., for $6,657.

DETROIT, MICH.—Bids are being received by the Department of Public Works, J. J. Haarer, Comr., for paving Colbourn, Forsyth, McDougal, Stanley and Superior Sts., with cedar block, and Third, Palmer and Winford Aves. with sheet asphalt.

The Department of Public Works has been directed to advertise for bids for paving with cedar block on concrete foundation the following streets: Montclair Ave., from Charlevoix Ave. to the city limits, 26 ft. wide at an estimated cost of $7,920; Chalmers Ave., from Freud Ave. to Jefferson Ave., 26 ft. wide, at an estimated cost of $8,496.

LUDINGTON, MICH.—We are officially advised that all bids received on Feb. 20 for constructing pavements have been rejected. The work will be readvertised. Dean Thompson is City Clk.

CORNING, IOWA. — We are officially advised that a contract has been awarded to the CAPITAL CITY CONCRETE CONSTRUCTION CO., Springfield, Ill., for constructing 120,000 sq. yds. brick paving; 2,373 lin. ft. combined curb and gutter; 1,857 lin. ft. gutter; 189 sq. yds. concrete alley paving. The item bids were :$1.93 per sq. yd. brick paving; 53 cts. per lin. ft. gutter; 69 cts per lin. ft. curb and gutter; $1.11 per sq. yd. concrete paving; 43 cts per cu.yd. extra grading (under 1,000 ft.); 5 cts. per cu.yd. overhaul grading (over 1,000 ft.). Noted on Feb. 9.

ST. PAUL, MINN.—Bids will be received by George J. Ries. County Audr., until March 6 for improvements of several roads.

Bids will be received by the Board of Public Works until 2 p. m., March 6, for the construction of cement and wooden sidewalks during the year 1911.

OMAHA, NEB.—Bids will be received by D. B. Butler, City Clk., until 8 p. m., March 7, for street improvements in accordance with plans on file in the office of the City Engineer.

COLUMBIA, MO. — Bids will be received until March 7 for constructing 11,750 sq. yds. of pavement. John S. Bicknell is City Clk.

DALLAS, TEX.—Bids will soon be asked for paving Jefferson St. for its entire length with asphaltic macadam. Walter T. Henderson is City Audr.

HILLSBORO, TEX.—We are officially advised that the contract for paving several streets with Hassam concrete has been awarded to the OCKLANDER BROS., at $80,000. Their bid was $1.85 per sq. yd. E. L. Dalton is Consult. Engr.

COUPEVILLE, WASH. — Bids will be received by H. T. Wanamaker, Audr. Island County, until April 5 for improving Hinman Road No. 82.

KALAMA, WASH.—Bids will be received by George Campbell, Audr. of Cowlitz County, for the construction of the Davis Creek Chamgo, in the Shanghai Road, in Sections 17 and 18, Township 7, north of Range 1, west of W. M., in Cowlitz County, Wash., until 10 a. m., March 7. Plans to be found in the County Engineer's office at Kalama, Wash.

OLYMPIA, WASH.—Bids will be received by Henry L. Bowlby, Secy. Highway Bd., until 2 p. m., March 8, for completing State Aid Road No. 71, known as the Spokane-West Road. The work to be done consists of completing the grading, ditching and draining of certain sections of this road; laying 1½ miles of asphalt macadam, and graveling 4.7 miles, the gravel to be screened, rolled and water-bound.

Bids will be received at the office of the State Highway Board, Olympia, until 2 p. m., March 15, for grading, draining and paving with asphaltic macadam, State Aid Road No. 97, otherwise known as the Cowlitz-Olympia Road.

WATERVILLE, WASH.—A contract for the construction of nine miles of county road has been awarded to J. J. MC NERNEY, of Wenatchee, at $38,000.

LOS ANGELES, CAL.—A contract has been awarded to PAONESSA & TAYLOR, Story Bldg., for grading and constructing sidewalks and curb on Deuger Ave., at $8,000.

RIVERSIDE, CAL.—OSCAR FORD was awarded a contract, at $15,275, for improving the remaining 2-mile strip of the Box Springs Road. Other bidders were: Johnson Shea Co., $17,280; Star Cement Co., $18,775.

The JOHNSON SHEA CO. was awarded a contract for macadamizing and constructing curbs and gutters on Park Ave. The bids received were: Johnson Shea Co., $29,173; Shull, Tuker Co., $29,727; Star Cement Co., $30,987; E. H. Kellog, $31,290.

SAN FRANCISCO, CAL.—See item under Water Supply—Irrigation.

OSHAWA, ONT.—Bids will be received by Frank Chappell, Town Engr., until March 18, for the construction of an asphalt block pavement on a concrete base, together with cement concrete curb gutter, for 1,750 lin. ft. on King St., and 1,650 lin. ft. on Simcoe St.

CALGARY, ALTA.—Bids will be received until noon, March 15, by W. D. Spence, City Clk., for the construction of a number of concrete sidewalks.

VICTORIA, B. C.—Bids will be received by Angus Smith, City Engr., until 3 p. m., March 3, for constructing 400,000 sq. yds. of pavements.

MANUFACTURING PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

AUGUSTA, ME.—The Wardwell Braiding Machine Co. has been organized for the manufacture of machinery for yarns and braids. A. F. Dunham is Pres.

FALL RIVER, MASS.—Plans for the Pilgrim Mills are finished, and bids will shortly be advertised for. Charles W. Praray is Engr. and Arch. Noted on Jan. 5.

SOUTH FRAMINGHAM, MASS.—The J. W. BISHOP CO., of Worcester, has been awarded a contract to erect a machine shop and office building for the Guyler Mfg. Co. here. The amount involved is about $40,000. The building will be three stories high, and of brick construction. James A. Spence, of Boston, is Arch.

WORCESTER, MASS.—An extensive addition will be built to the plant of the L. W. Pond Machine & Foundry Co. on Gold St. at a cost of about $75,000. The addition, which will be 240 × 100 ft., will be of brick and steel, and one story high. The sides will be of glass, in order that there may be plenty of light. A large amount of new equipment, including three travelling cranes, will be put in. Morris L. J. Scheffer, 30 Church St., New York, is Arch.

NEW BRITAIN, CONN.—The Hart & Cooley Co. has awarded the contract for the construction of a factory building, 50 × 60 ft., to the B. H. HIBBARD CO., of New Britain. At the annual meeting of this company held on Feb. 18, the directors voted to sell the ball bearing department of their business to a company to be organized for the purpose. These officers were elected: Howard S. Hart, Pres.; Norman P. Cooley, Treas.; R. C. Twitchell, Secy.; E. C. Goodwin, Asst.-Treas.; Howard S. Hart, Norman P. Cooley, P. Hart, L. Hoyt Pease, E. N. Stanley, E. C. Goodwin and J. H. Robinson, Dirs.

NEW HARTFORD, N. Y.—The Olympian Knit Goods Co., of New Hartford, plans to erect a brick addition to its plant to cost $60,000.

NEW YORK, N. Y.—Plans are being prepared for a 4-story tailor shop by S. Millman & Son., 1778 Pitkin Ave., Brooklyn, for Samuel Drucker. The estimated cost is $15,000.

ROCHESTER, N. Y.—Plans have been completed by the Defender Photo Supply Co. to double the capacity of its plant in Argo Park. The power plant is to be enlarged, a permit having been granted. Frank Wilmot is one of the officers.

PATERSON, N. J.—We are officially advised that Lee & Hewitt, Archs., 1123 Broadway, New York, will prepare plans for a 1-story addition, 50 × 100 ft., to the boiler shop of the Leslie, Elliott Co., of Paterson.

ELLWOOD CITY, PA.—It is reported that Thomas O'Neill, of Pittsburg, is interested in a plan to establish a plant here for making road dressing. It will be located near the Clyesdale quarries and brick works.

HARRISBURG, PA.—Plans have been completed by Weaver & Stewart, Archs., for the construction of a factory for W. G. Stoney. It will be a 3-story and basement structure, on a plot 50 × 90 ft., located at 14th and Mayflower Sts., on the south side of Union Square. WEAVER & STEWART will also erect the building. The estimated cost is $20,000.

PHILADELPHIA, PA.—The J. B. Stetson Co., manufacturers of hats, Fourth and Montgomery Sts., will erect two additions to their present plant. They will be of brick and concrete, one an 8-story building, 81 × 50 ft., another six stories in height, 98 × 44 ft., at a cost of $100,000, it is stated.

Plans are being prepared for Koelle, Speth & Co., Archs. and Engrs., 26th and Oxford Sts., for the erection of a 2-story ice plant and boiler house, 40 × 80 ft., for the Commonwealth Brewing Co., of which Harry Loeb is Pres., and Leon Engle Secy. and Treas., 2733 Cambridge St.

The general contract to erect a 6-story light manufacturing building, 34 × 125 ft., for Robert M. Green & Sons, 1413 Vine St., has been awarded to H. R. WARREN, 1319 North 15th St. Cost, $20,000.

BALTIMORE, MD.—The Baltimore Monoplane Co. is being organized for the purpose of establishing a plant to manufacture aeroplanes. Those who are interested in the company include: D. J. Carter, 2009 Boone St.; Dr. J. B. Sebastian, 204 North Liberty St.; Dr. Clinton Blades, 143 North Broadway; W. L. Anderson, 911 North Gilmore St., and Edward Wolfsheimer. They will form a stock company which will be incorporated with a capital of $300,000, it is reported.

Ross S. Matthews, of Connellsville, Pa., has purchased the property of the Mt. Vernon Brewing Co., at Wooster and Ridgley Sts., and will establish a brewery, ice and bottling plant. He will also equip the plant for distilling purposes.

CANTON, (Baltimore Post-office) MD.—Theodore Wells Pietsch, Arch., American Bldg., Baltimore, has just completed the plans for the $400,000 tin-box factory to be built on Boston St., Canton, for the American Tobacco Co. It will be four stories high, of brick, stone and concrete, and will be 230 × 350 ft. The floorings will be cement and sheet-metal, while the interior tiling and terrazzo work will be of the latest pattern. Noted on Jan. 26.

RICHMOND, VA.—The White Sulphur Springs Co. has increased its capital stock from $50,000 to $1,000,000 and plans to make extensive improvements to the property.

ROANOKE, VA.—The Consolidated Tramway Co., has organized with W. C. Lawson, as Pres., Roanoke; L. B. Keene Claggett, Vice-Pres., Calvert and German Sts., Baltimore, Md.; M. M. Caldwell, Secy., of Roanoke. It will establish a $25,000 plant to manufacture aerial tramways and car equipment for same; also automobile loading and dumping devices. The contract will soon be awarded for the erection of a 120 × 40 ft. fireproof building to cost $10,000.

ROBBINSVILLE, N. C.—It is stated that the Whiting Mfg. Co., Land Title Bldg., Philadelphia, Pa., and Legal Bldg., Asheville, N. C., will build sawmill to have daily capacity of 125,000 ft.

GREENVILLE, S. C.—The newly organized Westervelt Mills of Greenville, recently awarded the contract for erection of the plant buildings, to the GALLIVAN BUILDING CO., of Greenville. Lockwood, Greene & Co., 93 Federal St., Boston, Mass., prepared the plans and specifications and the principal buildings will be as follows: spinning and carding mill, two stories high, 423.6 × 130 ft.; weave mill, one story high, 231 × 301.4 ft.; picker and slasher house, two stories, 114 × 47.2 ft.; boiler room, 66.4 × 48.8 ft.; warehouse of three compartments, 154 × 102 ft. The weave mill will have a saw-tooth roof so that plenty of natural light will enter for the benefit of the weavers. All the buildings will be of brick construction. Steel beams will support the floors and wood beams will support the roof. The floors will be of wood surfaced with maple. The roof will be of wood. It is expected that the buildings will be completed and the machinery in position before November. There will be 50,000 spindles and 1,200 looms installed for producing India lawns and linons. The capital stock of the company is $1,000,000. Noted on Dec. 1.

NEW ORLEANS, LA.—The Fred. Miller Brewing Co., of Milwaukee, Wis., contemplates establishing a cold storage plant here to cost between $50,000 and $60,000. The structure will be located in the rear of the present building at 1125 Willow St. George Shoele is local representative.

The New Orleans Furniture Co., it is reported, plans to erect an extensive addition to its plant at Font and Bellcastle Sts. J. W. C. Wright, is Gen. Mgr. Estimated cost, $100,000.

CHATTANOOGA, TENN.—According to reports it is planned to establish at Chattanooga, a plant for manufacturing and waterproofing cotton cloth. It is proposed by Cook, Husbands & Winston of Paducah, Ky. They are endeavoring to interest Chattanooga investors to the extent of organizing a corporation in that city. The capital stock contemplated is $100,000, with a waterproofing equipment planned to begin with, and a cotton cloth mill to be added to the plant later on.

NASHVILLE, TENN.—The National Adding Machine Co., has been organized for the purpose of establishing an adding machine factory. The capital stock of the company is $15,000. Newton H. White, of Wales, Tenn., is Pres.; Nathan Crockett, Secy. and Treas. and Charles Wales, Gen. Mgr. The directors are as follows: Nathan Crockett, S. S. Lord, J. H. Ragsdale, J. D. Woodward, Ben Childers, Charles Wales and Newton H. White. Mr. Wales is inventor of the machine.

DAYTON, OHIO.—The Hollencamp Brewing Co., recently took out a permit to erect a 4-story brick addition to its plant at Brown and Hickory Sts. The building which will be 40 × 80 ft., will represent a cost of about $10,000, and is to consist of a brew house and wash house. The addition will mean a doubling of the plant's capacity.

COLUMBUS, OHIO.—The Gwinn Milling Co. plans to erect a $50,000 elevator building this year. The plans are in course of preparation.

FINDLAY, OHIO.—Plans are being prepared and will be received about March 15, for the construction of a 2-story and basement manufacturing building, 45 × 81 ft., for the Glessner Medicine Mfg. Co. G. J. Horn, 28 Rawson Block, is Arch. Estimated cost, $10,000.

MANSFIELD, OHIO.—The Shelley Candy Co., it is announced will erect a factory at 188-190 North Main St. Plans are now being prepared for the structure which will be three stories high, 180 × 60 ft., of brick construction.

NEWTON FALLS, OHIO.—According to reports, the Flexible Ladder Co. of Wheeling, W. Va., will establish a plant here.

NORWALK, OHIO.—The Gallup-Ruffing Handle Co., whose plant was destroyed by fire recently, entailing a loss of $40,000, will rebuild in this city.

TOLEDO, OHIO.—The Owens Virginia Bottle Co., of Toledo, has awarded the contract to J. A. McEWAN, Canal St., Beaver, Pa., for the erection of a plant, the estimated cost of which is $100,000.

BRAZIL, IND.—The Mullen-Blackledge-Nellis Co., has secured a site in this city and will soon ask for bids for the erection of a food products factory.

It is reported that bids will soon be received for the construction of a factory, 100 × 100 ft., in the Fairview section, for the Northwestern Can Co. M. Freedman, is Pres. and F. K. Buckminister, Treas.

EVANSVILLE, IND.—The Thompson, Thayer & McCowan Co. is preparing to build a hardwood factory on the site of the plant recently destroyed by fire.

SOUTH BEND, IND.—The Manufacturers' Plant & Power Co. has increased its capital stock from $100,000 to $150,000 and it is announced that the plant is to be enlarged and additional equipment installed. George Knapp, is Pres.

DETROIT, MICH.—J. L. Miller, Goebel Bldg., has awarded the general contract for the proposed creamery and cold storage building, three stories high and 165 × 100 ft., for the Artic Ice Cream Co., 435 Sixth St., to M. E. RYAN & SON, 105 Alfred St. Cost, $50,000.

GRAND RAPIDS, MICH.—The Grand Rapids Cigar Box Co., 93 Campan St., is having plans prepared for a 3-story factory, to be located at 124 Ellsworth Ave., Grand Rapids.

SAULT STE MARIE, MICH.—Brown & Bigelow of St. Paul, Minn., are having plans prepared for a factory to be erected in Sault Ste Marie, for the manufacture of advertising specialties. Work will be started early in April.

CHICAGO, ILL.—The masonry and foundation contract for constructing the proposed factory and power-house, for Frank E. Hecht, 444 South Jefferson St., has been awarded to J. W. SCHNEIDER, 160 Washington St. Patterson & Davidson are the Engrs. and F. E. Davidson, 98 Jackson Boulevard, the Arch. Cost, $250,000.

Plans are being prepared by Postle & Mahler, Arch., 204 Dearborn St., for the erection of a 5-story manufacturing plant, 100 × 125 ft., for the Imperial Brass Mfg. Co., 444 South Jefferson St. Cost, $85,000.

CHICAGO, ILL.—Bids are being received by R. S. Lindstrom, Supt. of Construction, 3400 Centre Ave., for the construction of a 3-story and basement factory. The owners are Spoor & Leonard, trustees of the Central Mfg. District, 154 Dearborn St. Estimated cost, $45,000.

DECATUR, ILL.—Plans are being prepared by B. S. Brooks for the erection of a factory consisting of a 1-story foundry, 60 × 153 ft., a 2-story and basement machine shop, 50 × 132 ft. and a wood shop, 70 × 70 ft. The Union Iron Works is the owner. Cost $40,000.

BANGOR, WIS.—The Hussa Brewing Co., will rebuild the damaged portion of its plant at once at a cost of $25,000. Parkinson & Dockendorff of LaCrosse are the Archs.

CLINTONVILLE, WIS.—We are officially advised that bids will be received until 10.30 a. m., March 8, by the Four Wheel Drive Auto Co., for the construction of an auto factory, 60 × 120 ft. and 30 × 40 ft., of brick, concrete and steel. W. W. DeLong, of Appleton, is Arch. The company is in the market for two 60 HP. boilers and one 75 HP. Corliss engine, lathes, etc. Cost $75,000.

GREEN BAY, WIS.—GREILING BROS., general contractors have the general contract for the construction of the plant of the Hartman Machine & Boiler Works on Fox river, near Green bay. The boiler snop will be 80 × 80 ft. and the machine shop, 60 × 60 ft., all of brick and steel construction. The equipment will include one 25-ton and one 5-ton electric traveling crane; one 5-ton hand crane and one 31,000 lb. steam hammer.

MANITOWOC, WIS.—The Schreihart Brewing Co. has awarded contracts for remodeling and rebuilding its plant at a cost of $18,000 as follows: Concrete work, floors, etc., to the SCHLAETER CO., of Manitowoc; steel work and construction to the WORDEN-ALLEN CO., of Milwaukee.

MENOMONEE FALLS, WIS.—We are officially advised that construction work will begin about March 15, on the plant of the I. B. Rowell Co., manufacturers of agricultural implements. It will be of reinforced concrete and will have approximately 200,000 sq. ft. of floor space. The company is in the market for new machines of different types. F. F. Rowell is Secy. and Gen. Mgr.

MILWAUKEE, WIS.—The Davis Mfg. Co., builders of water and air-cooled motors for automobiles, is about to ask for plans for a $50,000 addition to its plant at Park St. and 15th Ave. The capital has been increased from $100,000 to $200,000 for this purpose.

OSHKOSH, WIS.—The Davies Treshing Machine Co., recently incorporated with a capital of $75,000, announces that it will build a factory, the first unit to cost $15,000. The Oshkosh Chamber of Commerce has donated a site, 100 × 175 ft. E. F. Nelson of Elmhurst, Wis., is Pres. and John Davies of Oshkosh, Secy.

SUPERIOR, WIS.—The BARNETT & RECORD CO., of Minneapolis, Minn., will build a storage plant for hard coal for M. A. Hanna & Co. at this place. The proposed plant, which will be of steel and concrete, will take the place of the wooden structure which was destroyed by fire last fall. The dock, which will have a storage capacity of about 50,000 tons, will cost $60,000. Work will be started at once and the new plant will be completed and ready to handle coal next June. It will be operated in connection with M. A. Hanna & Co.'s soft coal dock, which has storage capacity for about 300,000 tons. Improvements are being made on other docks at the upper lake ports this winter, and the facilities for handling coal will be much greater next season.

SIOUX CITY, IOWA.—Official advices are to the effect that bids will be received about March 20 for the construction of a cracker and candy factory, 150 × 88 ft., for the Johnson Biscuit Co. It will be a 5-story and basement structure of mill construction. Wilfred W. Beach, of Sioux City, is Arch. The estimated cost of the building is $120,000 and equipment, $30,000. Noted on Jan. 12.

ST. PAUL, MINN.—The St. Paul Bread Co. is receiving bids for the construction of a plant, consisting of a group of buildings, at Twelfth and Robert Sts. One will be a 4-story office and warehouse and several one and 2-story pressed brick, cut stone and concrete structures will be built. Timothy Foley is Pres. Cost, $100,000.

ST. LOUIS, MO.—The Brown Shoe Co., of which George Warren Brown is Pres., will erect a 7-story factory, to cost $100,000, east of the first factory that company built about ten years ago at the southeast corner of 18th and Wash Sts. The new building, adjoining the present factory, will front 50 ft. on the south side of Wash St., with a depth of 150 ft. to an alley. The factory will contain nearly 60,000 sq. ft., and when completed will make the ninth factory built by the Brown Company in ten years. The new plant will give employment to about 300 more men, in addition to the present payroll. J. H. Roblee is First Vice-Pres.

AUSTIN, TEX.—James W. Arnold, of South Charleston, W. Va., contemplates establishing an iron foundry and rolling mill at Austin. He has taken the matter up with the Manufacturers' Committee of the Austin Business League, it is stated.

BROWNSVILLE, TEX.—The Gulf Coast Brick & Tile Co., of Brownsville, recently closed a contract with the AMERICAN CLAY MACHINERY CO., of Bucyrus, Ohio, for the installation of machinery at its plant for the manufacture of hollow building blocks and drain tile.

DALLAS, TEX.—The Universal Stenotype Co. has been incorporated with a capital of $1,500,000 for the purpose of establishing a factory. W. S. Ireland is Pres. and R. M. Bowen, Vice-Pres. and Acting Mgr.

EL PASO, TEX.—W. Prout, Jr., of Denver, Colo., and associates plan to erect a factory for the manufacture of macaroni at El Paso, it is reported.

GIDDINGS, TEX.—The Lee County Cotton Oil Co. has been organized at Giddings for the purpose of establishing a cotton-seed oil mill. The company is capitalized at $40,000. The incorporators are: P. S. Grogan, J. S. Hillsman and Richard W. Mayfield.

GONZALES, TEX.—Taylor H. Allen and H. J. Price will establish a plant at Gonzales for the manufacture of steel bridges and road machinery. The site for the proposed industry was recently purchased and it is stated that the erection of the plant will soon be started.

PORT ARTHUR, TEX.—According to reports, J. L. Spiegelmeyer, John W. Gates and others, of Galveston, will build an $800,000 sugar refinery at Port Arthur.

SAN ANTONIO, TEX.—The Mission Ice & Fuel Co., of San Antonio, will install a 25-ton ice plant in this city, in addition to its present plant. The company recently brought in an artesian well of large capacity.

TEXAS CITY, TEX.—The Texas City Fruit & Produce Growers' Association, of Texas City, contemplate installing a fruit and vegetable canning factory at this place. W. H. Newby is Pres.

MUSKOGEE, OKLA.—The Oklahoma Hardwood Mfg. Co. will establish a plant for manufacturing axe and shovel handles, flooring, etc., to cost about $25,000.

The United States Kellastone Co., of Terre Haute, Ind., will, it is reported, establish a plant to manufacture building plaster to cost $50,000.

OKEENE, OKLA.—The Midland Salt Co., with offices in the Colcord Bldg., has been incorporated with $200,000 capital stock by C. C. Pottenger, F. H. Foster and J. M. Remington, all of Oklahoma Sity. It will erect a plant 150 × 700 ft., of brick and wood, to cost $125,000. They plan to establish a second plant in the western part of Oklahoma later.

OKLAHOMA CITY, OKLA.—The Stanford Furniture Co., of Oklahoma City, has purchased three lots on the north side of Grand Ave., east of the Santa Fe tracks, and will erect a 6-story $100,000 structure there for its business. The consideration for the purchase was $40,000. The company, which is composed of R. D. and A. S. Stanford, is now located at Eighth St. and Santa Fe Ave. The lots upon which they will build were purchased of H. L. Nevin, of Louisville, Kan.

DENVER, COLO.—The Texas Oil Co. plans to establish a plant on a site recently purchased at the northwest corner of West 38th Ave. and Galapago St., which consists of 3¼ acres of ground. John W. Gates is at the head of the project.

DEMING, N. MEX.—Rash & Leopold are having plans prepared for a 2-story ice manufacturing and cold storage plant for the Deming Ice & Electric Co., to contain all modern appliances. The cost will be $15,000.

PORTALES, N. MEX.—The American Sugar Refining & Mfg. Co. plans to establish a factory here, it is announced, at a cost of $1,000,000.

DOUGLAS, ARIZ.—C. H. Redpath, Engr., Brophy Bldg., is preparing plans for the enlargement of the smelting plant of the Calumet & Arizona Mining Co., and for the construction of a manufacturing plant. The estimated cost is $500,000. Work to begin in six months.

SPOKANE, WASH.—The following contracts have been let for furnishing building material for the proposed plant of the Kingsley Chemical Reduction Co.: About 400,000 common brick, A. T. DISHMAN; timber and rough lumber, the IDAHO PINE CO. The estimated cost, $12,000. S. Anderson is Pres.

PORTLAND, ORE.—Arrangements have been completed, it is stated, for the construction of a meat packing plant on the Peninsula, for Schwarzchild & Sulzberger, of Chicago, Ill. E. A. Peterson is the Pacific Coast representative.

ALAMEDA, CAL.—The contract to erect an extensive factory for the Gorham Engineering Works along the shore of the tidal canal between the Park St. and Fruitdale bridges, has been awarded to POWELL BROS. Cost, $20,000.

CALEXICO, CAL.—JASPER L. TRAVERS, of El Centro, has secured the contract for the erection of a cold storage plant for W. F. Holt. It will be of reinforced concrete construction, and is to be equipped with modern machinery. Cost, $12,000.

LOS ANGELES, CAL.—The Wood Brewing Association has purchased a site, 40 × 150 ft., at 923 Santa Fe Ave., upon which it will erect, at once, a factory building. Joseph Wood is Pres. and Walter S. McKee, Secy.

NEVADA, CAL.—The JOSHUA HENDY IRON WORKS, of Sunnyvale, has been awarded the contract for the construction of a 40-stamp mill to be erected in Nevada. The mill will cost $50,000.

MONTREAL, QUE.—The Holt-Renfrew Co., Ltd., has purchased property on McGill College Ave., in the rear of the St. Catharine St. store, upon which to erect a cold storage plant, six or eight stories high.

The Brush Automobile Co., of Loughborough, England, has purchased a site here on which to erect a plant to manufacture automobiles and electric street cars.

PARADISE, CAL.—The Paradise Fruit Growers' Association has completed arrangements for the building a a warehouse and factory at Paradise, and work on the building will start this spring.

RICHMOND, CAL.—The plant of the Standard Oil Co., in Richmond, which was destroyed by fire recently, will be rebuilt at once. The cost of the plant will be between $750,000 and $1,000,000.

SAN FRANCISCO, CAL.—The Dow Pump Works will erect a 1-story brick factory building, 165 × 175 ft., on First St.

The Kompolite Co., of the Pacific Coast, with a capital stock of $500,000, has been incorporated in this state and within the next few weeks construction of a factory at Second and King Sts. will be begun. The company is a sub-corporation of the Kompolite Co. of America, which has a capitalization of $5,000,000. The product to be manufactured by this company is a fireproof material used in floors, walls and roofs. The plans of the incorporators are to construct the factory at once, 8,000 sq. ft. of floor space already being arranged for. The company will give employment to several hundred men and will open agencies throughout the West. The main office will be in the Mills Bldg., this city. The officers and directors of the company are: A. M. Bergevin, Pres. and Gen. Mgr.; Harold Mack, of the New York banking firm of Ehrich & Co., Vice-Pres.; William Ehrich, Treas.; George Boss, John I. Walter, I. Jaros and S. Jaros, additional directors, besides the officers of the company.

HAMILTON, ONT.—The Oliver Chilled Plow Works will erect an assembly plant here costing $200,000, and also a foundry, 576 × 135 ft. and two stories high.

WINDSOR, ONT.—O. R. S. Traber, Fullerton Bldg., St. Louis, Mo., is preparing plans for a 3-story factory building, 100 × 150 ft., for the Maloney Electric Co., Seventh and Hickory Sts., St. Louis. Plant to be located at Windsor. Cost, $30,000.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

SAND AND GRAVEL.—Boston, Mass.—Bids were opened on Feb. 13 by the city for furnishing sand and gravel in several city districts. The bids follow: (a) gravel, (b) sand: East Boston District: George H. Noone, (a) $2; Charles J. Jacobs Co., (a) $2, (b) $2; J. P. O'Rierden, (a) $1.75, (b) $1.69. Charlestown District: Charles J. Jacobs Co., (a) $2; J. P. O'Rierden, (a) $1.70, (b) $1.50. Brighton District: Charles J. Jacobs Co., (a) $2.25, (b) $2.25; George H. Noone, (a) $2, (b) $2; A. J. & G. H. McMurty, (a) $1.65, (b) $1.90. City proper: George H. Noone, (a) $2, (b) $2; Hugh Nawn Contracting Co., (a) $1.90, (b) $1.90; Charles J. Jacobs Co., (a) $1.80, (b) $1.80; J. P. O'Riorden, (a) $1.80, (b) $1.80.

ELIMINATION OF GRA [illegible] ROSSINGS.—Boston, Mass.—It is propos [illegible] abolish the remaining four grade cross [illegible] the Shawmut branch of the New Yo [illegible] w Haven & Hartford R. R. as soon as [illegible] work of the main line grade crossings i [illegible] pleted, which will probably be late this ye [illegible] T. Wheeler is Engr. of Constructio [illegible] ton. This will abolish all but one g [illegible] crossing in Boston on the New Haven [illegible], it is reported.

COLLIER.—Boston, Mass.— [illegible] ontract for the construction of a new [illegible] r for the New England Gas & Coke [illegible] has been awarded the FORE RIVER S [illegible] UILDING CO., Quincy Point, Boston. [illegible] new craft will be finished in about [illegible] nths and will be suitable for carrying [illegible] d general cargo also. Her measurem [illegible] will be: Length, 389 ft.; beam, 54.6 [illegible] depth of hold, 31 ft. Capacity, 7,200 t [illegible]

ELIMINATION OF GRADE [illegible] SSINGS.—Waltham, Mass.—The elimin [illegible] of grade crossings here has been settl [illegible] the parties interested. Three tracks [illegible] be laid, the tracks being carried no [illegible] d a few feet only, removing the presen [illegible] ion. Bertram Brewer is City Engr.

DREDGING, ETC. — Newpor [illegible] I.—Bids will be received by the Bureau [illegible] ards and Docks, Navy Dept., Washingto [illegible] C., until 11 a. m., March 25, for pla [illegible] dolphins, fender piles, floating fenders [illegible] dredging at the U. S. naval coal dep [illegible] Bradford, Newport, R. I.

CEMENT.—New Britain, Conn. [illegible] Board of Public Works has awarded [illegible] contract for cement for the season to the [illegible] H. HIBBARD CO., of New Britain, at $1 [illegible] per bbl. on car; $1.37½ delivered in team [illegible] bids being on Lehigh or Grazon cement. [illegible] her bidders were: Swift & Upson Co., [illegible] and $1.48; City Coal & Wood Co., Atl [illegible] Portland cement, $1.50 and $1.65; New Br [illegible] Lumber & Coal Co., $1.50 and $1.65.

STORE-HOUSE.—Ft. H. G. Wright (New London, Conn., post-office), N. Y. [illegible] apt. F. T. Arnold, Constr. Q. M., U. S. A., New London, Conn., received the following bids on Feb. 18 for the erection of a brick quartermaster's and Ordnance storehouse at Ft. H. G. Wright: John J. Fitzpatrick & Sons, $21,815; F. H. Redden Construction Co., $19,900; Sperry Engineering Co., $21,940; W. L. Roe, Jr., $22,468; Amity Construction Co., $19,536; C. E. Currier Co., $21,500; Merrick Fireproofing Co., $22,650; John Minos Co., $18,975; W. H. Fissell Co., $20,900.

REVOLVER RANGES, ETC. — Blauvelt, N. Y.—The State Armory Commission has awarded contracts for work at the rifle range here as follows: For revolver range, magazines, sidewalks, concrete walls, water supply house, etc., to ROBERT W. McCREADY, Tuxedo Park, N. Y., at $18,500; for iron fence, to the PETER KEELER BLDG. CO., Albany, at $8,869; for steel back stop, to SHARON IRON WORKS, Sharon, Pa., at $11,825. Maj. F. A. McNeeley is Secy. Comn. List of bidders noted on Feb. 2.

*PARK AND PLAYGROUND.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m. March 9 for constructing park and playgrounds bounded by Bedford Ave., Lorimer St., Driggs Ave. and North Twelfth St., being part of McCarren Park, Boro. Brooklyn.

GRAVEL, ETC.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., March 9, for furnishing and delivering gravel for parks and parkways, Boro. Manhattan; for furnishing and delivering 1,400 cu. yds. of clay loam, where required on parks, Boro. Manhattan; and for furnishing and delivering 600 cu. yds. of organic mould or humus where required on parks, Boro. Manhattan.

FIRE ALARM BOXES, ETC.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., March 13, for furnishing and delivering 150 fire alarm boxes; 100 iron shells for fire alarm boxes; 200 keyless doors.

REPAIRING DOCK.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., March 13, for furnishing all the labor and materials required for the complete repairing of the freight dock at Randalls Island, City of New York. Michael J. Drummond is Comr.

DREDGING.—New York, N. Y.—No award will be made, it is reported, for dredging at the navy yard, New York, under bids received Dec. 22 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until it is decided by Congress whether a new battleship is to be constructed at the yard.

DREDGING.—New York, N. Y.—Bids were received by Calvin Tomkins, Comr. of Docks, on Feb. 20, for furnishing material and dredging in the Boroughs of Manhattan, Brooklyn, Queens and Richmond, per Contract No. 1263. Contracts have been awarded as follows: Class 2, to P. SANFORD ROSS, INC., of Jersey City, N. J., at 24.5 cts.; Class 4, to HENRY DU BOIS SONS CO., 17 State St., New York, at 20 cts.

STONE.—Belleville, N. J.—Bids will be received until March 7 by C. Lyman Denison, Chn. Township Com., for furnishing 5-in. bottom stone, 2½-in. and 1½-in. broken stone and screenings, first quality Orange Mountain traprock.

FIRE HOUSE.—Irvington, N. J.—Bids will be received until March 6 by the Building Commission for erecting a reinforced concrete firehouse on Washington Ave., including plumbing, heating and electrical work. Bids for a brick firehouse will be considered also. Joseph B. Allen is Arch., 11 Sanford Ave., Irvington. M. Stockman is Town Clk.

SCOW, ETC.—Philadelphia, Pa.—Bids will be received until March 6, by Joseph F. Hasskarl, Acting Dir. Dept. Wharves, Docks and Ferries, for furnishing a deck and coal scow, a still leg derrick to be furnished and erected on board deck scow belonging to the Department of Wharves, Docks and Ferries.

(Continued on page 104.)

CURRENT PRICES OF ENGINEERING MATERIALS

Supplement to **ENGINEERING NEWS,** appearing in the First Issue of Each Month. New York, March 2, 1911.

PRICE CHANGES AND THE BUSINESS OUTLOOK.

The most important event of the past month in the financial world has been the decision of the Interstate Commerce Commission refusing to railway companies the permission to make the advances in freight rates which were asked for a year ago. While the first effect of the decision was to cause a slump in the prices of stocks held by speculators, a reaction at once occurred as investors realized the immensely strong and advanced position the Commission's decision showed the railways to hold. The fact that railway earnings and dividends were far greater in 1910 than ever before, and that twice as great a proportion of railway stock is paying dividends as in the late '80's and early '90's, while the average dividend rate is twice as high, is a complete answer to the prophesies of financial disaster of which too many railway magnates have been guilty.

Undoubtedly had the decision of the Commission been favorable to the railways the stock market would have had a boom which might have been reflected in increased activity in general business. As it is, the railways are shown by highest authority to be in the most prosperous condition ever recorded, and many business men are reflecting that a raise of rates would only have transferred money from the pockets of shippers to the railway treasuries and would have put no more money in circulation.

Under these conditions the threats of stopping all work of improvement and extension are no longer heard. The $75,000,000 improvement planned by the Union Pacific will be made. More miles of track can be built for less money than was thought possible twelve months ago. Announcement has been made, in rather a vague way, that the Missouri Pacific System will be thoroughly rehabilitated by its new managers. The Southern Railway, which did not join in the general request for increased freight rates, is paying dividends on its preferred stock for the first time since 1907.

The orders booked by the makers of pig iron and finished steel products have been larger than at any time in six months. In some lines of the steel trade the activity has been pronounced, but in general the steel industry is not working at more than two-thirds capacity.

The financial situation has improved to a marked degree. The sale of New York City bonds, which was referred to last month, was followed by a much stronger investment demand, which has already carried the quotation about 1.25% above the average sale price. Several railways have come into the market with offerings of bonds or short-term notes and have had no difficulty in disposing of high-grade securities. Another block of $50,000,000 in bonds has been sold to European investors.

The supply of labor is far in excess of the demand, and for the first time since midsummer it is possible to secure common labor in New York at $1.50 a day. More work is being done for the same pay than at any time in the past year. It is evidently the belief of the Interstate Commerce Commission that wages have reached their maximum. It says in its recent decision:

"It is likely that the labor expenses of these railways will not in the immediate future much increase unless there should be a general advance in all prices."

There has been a general contraction of credits during the past year and the country is well prepared to sustain any financial stringency.

Price changes have been few, although the pig iron market has advanced slightly, wire products are higher and there has been a marked improvement both in the demand and in the price of old materials.

LABOR.

The decision of the Interstate Commerce Commission, handed down last week, that no increase should be allowed in the matter of freight rates, had more bearing on the labor market than on the financial markets. There would have undoubtedly been an attempt by the railroad employees to secure a greater part of the increased earnings of the railways had it been granted and this would have raised wages in kindred lines.

The replies recently received in answer to a circular letter sent out by a large employment agency are practically unanimous, all over the country, that common labor in the sections where the replies were received from, extending from the Mississippi River to the Atlantic and the Great Lakes to the Gulf, is in excess of the demand, and during the first few months of spring, at least, there will be no necessity of importing labor from outside.

Strikes and labor disturbances are less heard of than in a long time, although in Western Canada all building trades employees in Alberta are expected to strike. The carpenters will ask an increase of 10 cents an hour with a closed shop. In the extreme West frequent reports have been made, especially in the newspapers, that there is a dearth of common labor. We are informed that this is untrue, and there is plenty of labor to be had at the ruling wage in those sections of the country.

In factory work, and in fact practically all lines, there has been a weeding out of the incompetent and less energetic men that were employed the latter part of 1909, and the efficiency of the workmen in the average shop is now higher than any time for several years.

The wage of the common laborer in New York, which advanced to $1.65 last July, is suffering a decline and in New York there is a large supply of good men available at $1.50.

CEMENT, LIME AND BRICK.

PORTLAND CEMENT. — The low prices have not worked any great injury to the trade as yet because of the absence of business. Some of the strongest companies, although not the largest, are not anxious to make long time contracts at prevailing prices and at least one company is politely refusing to make quotations for mid-summer delivery. Other companies have sold well ahead, but at the prevailing quotations. The decline this year has been a market disapointment to the trade, but, on the other hand, it is felt that it may prove to be an excellent move in the end, for it will probably result in a better distribution of cement from mills so situated that they can take advantage of the contracts offering at a minimum freight rate. Quotations in New York are $1.43 per bbl., with an allowance of 40 cts. for the bags returned. In Boston the quotation is $1.52; Buffalo, $1.50; Philadelphia, $1.40. On the Pacific Coast prices range from $2 to $2.40 per bbl. The Eastern quotations represent a price of 80 to 90 cts. per bbl. in bulk at the mill.

No change has been made in the price of imported cement, $2.42 being quoted for Alsen's and $2.43 for Dyckerhoff's.

NATURAL CEMENT.—There is practically no demand at this season of the year, but prices are steady and unchanged at 80 cts. per bbl. in New York and $1.05 in Boston.

BRICK.—The prices of brick have moved up slightly, Hudson River common being quoted at $5.50 to $5.62 a thousand, an advance of about 40 cts. compared with last month. Covered cargoes are held slightly higher. Raritan brick have advanced sharply, being quoted at $5.50 to $6 in New York and $6.75 in yard at Newark. The available supply of Hudson River brick in the New York market is figured at about 10,000,000.

White enameled brick are held at the unchanged price of $60 per thousand for the American size (83 × 2¼-in. enameled surface by 4⅛-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

PLASTER BLOCKS.—For large lots, prices are as follows:

	Weight, lbs. per sq. ft.	Price, cts. per sq. ft.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface. The 2-in. blocks are solid, but the others are hollow.

Plaster boards, ⅝-in. thick, are 16 cts. per sq. yd.

LIME.—The following prices are for lots of 500 bbls., delivered in New York City; State common, per bbl., 75 cts.; Rockland-Rockport common, 92 cts.; Rockland-Rockport special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.36.

STONE.

BLUE STONE.—Conditions in this line are only slightly different from those of a month ago. There is slightly more inquiry but actual sales are at a minimum.

Prices continue without change, and for delivery, either alongside of dock or f. o. b. cars, New York, are as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick, that will pass New York City specifications, 18 to 19 cts. per sq. ft. Sewer bottoms, 5 ft. sq. and 3-in. thick, are sold at 25 cts. per sq. ft. Curbing 5 × 16-in., is 40 cts., and 5 × 24-in., by 5-in. thick, is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in. thick is 50 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 75 cts. per cu. ft.

GRANITE.—Prices continue without change at 40 to 45 cts. per cu. ft. for promiscuous shapes or run of quarry.

Pink Milford granite is in fair demand and unchanged in price at $1 per cu. ft. for promiscuous shapes.

LIMESTONE.—Prices are unchanged at 85 cts. per cu. ft., delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1 per cu. ft.

INTERIOR STONE.—Slate flooring, 1-in. thick, can be had at 20 cts. per sq. ft. for the common or ribbon variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE, SAND AND GRAVEL.

CRUSHED STONE.—The demand for stone is light and few inquiries have developed. Prices are without change as follows:

For 1½-in. stone, 90 cts. to $1.00 a yd. is quoted; ¾-in. stone, 95 cts. to $1.10, and screenings are also sold at 95 cts. to $1.10. These prices are for full cargo lots of 500 cu. yds. delivered alongside of dock, New York City.

In Boston, the following prices are quoted, f. o. b. cars at point of shipment, per net ton; 2½-in., 65 cts.; 1½-in., 75 cents.; ¾-in., 90 cts.

SAND.—The same conditions that were noted last month continue. It is possible to buy sand for immediate delivery at 25 cts. There is no demand, however, for sand to be delivered now. For contracts through the year a higher range of prices prevail, and some sales have been made at 30 to 35 cts.

One dealer is quoting 35 to 40 cts. per cu. yd. in scow loads alongside of dock.

White quartz sand is 60 cts. per cu. yd., and white quartz grit, 75 cts. per cu. yd. All of these prices are for delivery alongside of dock, New York, and for full cargo lots of 500 yards.

In Boston, sand sells at 35 cts. per cu. yd., to which is added the freight of about 50 cts.

GRAVEL.—The market is steady. One dealer has advanced the opinion that the demand for all kinds of building materials will be excellent the last part of this year and the first of next.

Prices are unchanged at 75 to 85 cts. per cu. yd. delivered alongside of dock. These prices are for cargo lots of 500 cu. yds.

White quartz roofing gravel is $1.25 to $1.35 per cu. yd.

IRON AND STEEL.

PIG IRON.—Several indications point as if an improvement was in order. In January the production of pig iron fell off, as it had for several months, but the statistics compiled by "The Iron Age" showed that more furnaces were in blast Feb. 1, than at the beginning of the previous month, and moreover the actual daily output was larger Feb. 1, than the first of the year. Prices have stiffened in some quarters and there is no disguising the fact that many consumers of iron would place orders for large amounts if these would be accepted at current prices for long time deliveries. A further indication of marked improvement, probably the most important one, is the increased demand for old material at higher prices. The largest single order placed in many months was booked a fortnight ago. This was for 100,000 tons and was placed by a maker of agricultural machinery. A cast iron pipe maker has ordered 50,000 tons for delivery later in the year. Prices are slightly higher.

For lots of 100 gross tons and over f. o. b. points named quotations are as follows: Cincinnati, Southern foundry No. 1, $14.75 to $15.25; Southern foundry No. 2, $14.25 to $14.75; Southern foundry No. 4, $13.50 to $14. In Philadelphia, Eastern Pennsylvania No. 2 is $15.50 to $15.75; Eastern Pennsylvania No. 2 plain, $15 to $15.50. In Chicago, Northern foundry No. 2 is $15.50 to $16; Southern foundry No. 2, $15.35 to $15.85. In Pittsburg, Bessemer is $15.00 and basic is $14.65. These quotations include the 90-ct. freight rate from the Valley to Pittsburg. In New York, Northern foundry No. 2X is $15 to $15.25; Southern foundry No. 2, $15 to $15.25. In Birmingham, Southern foundry No. 2 is $11 to $11.50.

STEEL RAILS.—The export business has been of good volume and shows no signs of decreasing. The Railways of this country are larger buyers of rails than is generally supposed. The Chicago City Rys. bought 15,000 tons of girder rails. The Interborough Rapid Transit of New York has purchased 5,000 tons; two Western Electric lines 2,600 tons and Stone & Webster 625 tons. The Canadian Pacific will buy 40,000 to 60,000 tons this year, but most of it will go to mills in that country.

All new rails are now quoted in cents per lb., the quotations being as follows for lots of 500 tons and over: Standard sections, 50 to 100-lbs., per yard, 1.25 cts. per lb.; 40 to 45-lbs., 1.16 cts.; 30 to 35-lbs., 1.20 cts.; 16, 20 and 25 lbs., 1.21 cts.; and 12-lb. rails, 1.25 cts. Relaying rails are unchanged in New York, at $20.50 to $21.50 per gross ton. In Chicago, standard sections, subject to inspection, are $1 a ton cheaper than last month at $23 to $24 per gross ton.

TRACK SUPPLIES.—More inquiry and likewise more actual business is noted in the line of track fastenings than for more than a year. The Western roads, in particular, have been steady buyers. Prices, per lb., on spikes were revised Feb. 1, as follows:

Railroad Spikes.

4½, 5 and 5½ x 9/16		1.55
3, 3½, 4, 4½ and 5 x ½	Extra	.10
3½, 4 and 4½ x 7/16	Extra	.20
3, 3½, 4 and 4½ x ⅜	Extra	.30
2½ x ⅜	Extra	.40
2½, 3 and 3½ x 5/16	Extra	.60
2 x 5/16	Extra	.80

Boat Spikes.

¾ in. square, 12 to 24 in. long	Extra	.15
⅝ in. square, 8 to 16 in. long	Extra	.15
½ in. square, 6 to 16 in. long	Extra	.15
7/16 in. square, 6 to 12 in. long	Extra	.20
⅜ in. square, 4 to 12 in. long	Extra	.30
5/16 in. square, 4 to 8 in. long	Extra	.45
¼ in. square, 4 to 8 in. long	Extra	.75
¼ in. square, 3 to 3½ in. long	Extra	1.00

Track bolts, in carload lots, with square nuts, are 2.15 to 2.25 cts. per lb. base in Chicago.

STRUCTURAL SHAPES.—Railway work is showing much more activity.

The Boston & Maine is in the market for a rolling lift bridge, requiring about 300 tons. The Delaware & Hudson shops, at Albany, requiring about 4,000 tons of structural shapes, has been virtually awarded to a Pittsburg interest.

The Isthmian Canal Commission is in the market for 12,000 tons for emergency work. A new telephone building; a hotel at 34th St. and Broadway and a new 50-sty structure opposite the Post Office comprise the principal work in New York City.

Prices are without change. The following quotations are named in cts. per lb., f. o. b. Pittsburg: I-beams and channels, 3 to 15-in., 1.40 to 1.45 cts.; over 15-in., 1.55 cts.; H-beams, over 8-in., 1.65 cts.; angles, 3 to 6-in., inclusive, 1.50 cts.; angles over 6-in., 1.55 cts.; zees, 3-in. and over, 1.50 cts.; angles, channels and zees under 3 in., 1.45 base and full extras; deck beams and bulb angles, 1.75 cts.; hand rail tees, checkered and corrugated plates, 2.75 cts.

Chicago store prices in cents per lb. are as follows: Angles, 3 to 6-in., 1.80 to 1.90 cts.; over 6-in., 1.90 to 2 cts.; I-beams and channels, 1.80 to 1.90 cts. In San Francisco, prices from store continue without change at 2.70 cts. base.

CAST IRON PIPE.—The Brooklyn Union Gas. Co. has purchased 14,000 tons; Worcester, Mass., 2,100 tons; Fall River, R. I., 500 tons and Minneapolis, Minn., 4,000 tons. The market is much more active and indications point to numerous lettings for small lots. Quotations per net ton are from 50 cts. to $1.50 higher than last month, and are now practically the same as in December, as follows:

Birmingham, Ala., 4 to 6-in., $21; 8 to 12-in., $20; over 12-in., $19.

Chicago, 4-in., $25.50; 6 to 12-in., $24.50; 16-in., $24.

New York, 6-in., $21.50 to $22.

OLD MATERIALS.—The inquiry from consumers is better than for a long time and prices have advanced. The advance is an indication that both consumers and sellers of scrap have much more confidence in the market than for many months past. In some parts of the country there is a disposition among sellers of scrap to hold their material and, in some cases, prices thought to be prohibitive have been put on the material.

Prices in New York per gross ton are as follows: Heavy melting steel scrap, $11 to $11.50; No. 1 yard wrought $11.50 to $13; No. 1 railroad wrought, $13.50 to $14; pipes and flues, $10.50 to $11; cast borings, $6.50 to $7; machinery cast, broken up, $12.50 to $13; stove plate, $10 to $10.50.

In Chicago the market is firmer and although quotations have not advanced as rapidly as in New York, there is a feeling that prices will improve.

Quotations are as follows per gross ton: Re-rolling rails, $13.25 to $14; heavy-melting steel scrap, $12.50 to $13; shoveling steel, $11.50 to $12. For such materials as are sold by the net ton quotations are as follows: Miscellaneous railroad wrought, $11 to $12.50; machine shop turnings, $7 to $7.50; No. 1 cast scrap, $12 to $12.50; pipes and flues, $9 to $9.50; railroad malleable, $11.50 to $12; agricultural malleable, $10.50 to $11.

In Pittsburg the market is more buoyant than in any other center. Almost all kinds of scrap are in active demand. Quotations per gross ton are as follows: Re-rolling rails,

$15 to $15.25; No. 1 foundry cast, $14.50 to $14.75; No. 2 foundry cast, $13.75 to $14; old grate bars, $11.25 to $11.50; car wheels, $13.75 to $14; bundled steel scrap, $11 to $11.25

PLATES.—Car orders have been more numerous and several lots for 500 cars or more have been booked by the makers of steel cars. Ship building is very quiet although Congress has authorized two new battleships.

Prices are unchanged at 1.40 cts. base for wide plates. Plates ¾-in. thick, 6¼ to 100 ins. wide, 1.40 to 1.45 cts.; ¼ to 3/16-in. thick, 1.50 to 1.55 cts.; 3/16-in. and thinner, including No. 8 gage, 1.55 to 1.65 cts.; Nos 8, 9 and 10 gage, 1.70 to 1.75 cts. All these prices are per lb. f. o. b. mill.

In Chicago store prices are 1.85 to 1.95 cts.

PILING, SHEET STEEL.—Prices are without change at 1.60 cts. per lb. f. o. b. Pittsburg.

STEEL CASTINGS.—Prices continue without change. Open hearth steel castings, weighing from 100 to 500 lbs., are 3½ to 5 cts. per lb. Crucible castings, weighing from 100 to 500 lbs., are 7⅛ to 9 cts. per lb.

RIVETS.—The demand is less than for many other finished products. Quotations are as follows: Structural rivets, ¾-in. and larger, 1.90 cts. base; cone head boiler rivets, ¾-in. and larger, 2 cts., base; ⅝-in. and 11/16-in. take an advance of 15 cts., and ½-in. and 9/16-in. take an advance of 50 cts. Lengths shorter than 1-in. also take an advance of 50 cts. Terms are 30 days, net cash, f. o. b. mill.

CASTINGS, GREY IRON.—The volume of business is still below normal. Building castings are to be had 1.62½ to 2 cts. per lb. depending on the size of the order and shape of the casting. Stair work is 2 to 2.50 cts. per lb. Rough castings such as foundation pieces, sewer work and similar heavy pieces are 1.50 to 1.75 cts. per lb.

FREIGHT RATES.—The freight rates, on finished steel products, from the Pittsburg district, including plates, structural shapes, merchant steel and iron bars, pipe, fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs), black sheets (except planished), chain, etc., are as follows, in cts. per lbs.; Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canandaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

WIRE ROPE.—Prices are unchanged. The discount to the larger trade is 42½ and 5% from list for galvanized, and 50 and 5% from list for bright. The net prices of bright wire rope are as follows:

Diameter, inches.	Price per foot: Cast steel.	Crucible steel.	Plow steel.
2¾	$1.05	$1.24	$1.46
2½	.85	1.05	1.22
2	.57	.65	.76
1¾	.44	.54	.64
1½	.32	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

ROOFING, CORRUGATED.—The demand shows some improvement but there is no especial activity. Quotations are unchanged and per 100 sq. ft., of roof surface are as follows: Carloads, Pittsburg, No. 28 painted, $1.55; No. 28 galvanized, $2.75. From store New York, No. 24 painted, $3.60; No. 24 galvanized, $4.50; No. 26 painted, $2.75; No. 26 galvanized, $3.75; No. 28, painted, $2.40; No. 28 galvanized, $3.50.

SHEETS.—A continuation of the improvement noted last month is observed. The American Sheet & Tin Plate Co., is now operating to about 65% of capacity compared with 50% a month ago. Stocks are small and consumers are only buying for their immediate wants.

The following quotations are named: f. o. b. mill in the Pittsburg district.

	Cts. per lb.: Black.	Galvanized.
Nos. 10 and 11	1.85	2.20
Nos. 12, 13 and 14	1.90	2.30
Nos. 15, 16 and 17	1.95	2.45
Nos. 18, 19, 20 and 21	2.00	2.60
No. 22	2.05	2.60
Nos. 23 and 24	2.05	2.70
Nos. 25 and 26	2.15	2.90
No. 27	2.20	3.05
No. 28	2.20	3.20
No. 29	2.25	3.30
No. 30	2.25	3.50

Store prices Chicago are as follows:

	Cts. per lb.: Black.	Galvanized.
No. 10	2.40	2.95
No. 12	2.40	
No. 14	2.45	
No. 16	2.55	3.05
Nos. 18 to 22	2.70	3.20
No. 24	2.75	3.30
No. 26	2.85	3.50
No. 27	2.95	3.65
No. 28	3.15	3.80
No. 30	3.35	4.25

TIN PLATE.—The activity in this line is more pronounced than in any other department of the industry. The leading interest is now operating about 87% of capacity compared with 50% a month ago. Prices have advanced 10 cts. a box for the 14 × 20-in. plate and 20 cts. a box for the 20 × 28-in. plates on account of the unusual prices of pig tin.

Terne plates or tin plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York are revised as follows: $8.70 per box for 20 × 28-in. I C plates with an 8-lb. coating; plates of the same size with a 15-lb. coating are $10.60; 20-lb. coating, $13.20, and 40-lb. coating $16.70.

MERCHANT PIPE.—Some large contracts will probably be let in the next few weeks for oil pipe lines. The Tri-State Natural Gas Co., has purchased 70 to 75 miles of 3 to 10-in-line pipe. Discounts are unchanged as follows:

	Black.	Galvanized.
¾ to 1½-in. Butt weld	79	69
2-in. Lap weld	76	66
2½ to 4-in. Lap weld	78	66
4½ to 6-in. Lap weld	77	67
7 to 12-in.	75	59

At these discounts the net prices of pipe per ft. are as follows:

	Steel Pipe in Cts. per ft. f. o. b. Mill: Black.	Galv.
¾-inch	2.43	3.58
1 -inch	3.47	5.12
1¼-inch	4.74	7.00
1½-inch	5.69	8.35
2 -inch	8.65	12.20
2½-inch	12.70	19.80
3 -inch	16.60	25.60
4 -inch	23.70	36.70
5 -inch	33.40	48.00
6 -inch	43.20	62.00
7 -inch	54.00	78.00
8 -inch	65.00	93.00
9 -inch	78.00	112.00
10 -inch	92.00	132.00
11 -inch	104.00	149.00
12 -inch	114.00	162.00

BARS AND MERCHANT SHAPES.—Prices have been cut about 10 cts. per lb. There is more activity in this line than for several months. Quotations from New York store are as follows:

Refined Iron:	Cts. per lb.
1 to 1⅞-in. round and square	1.75
1½ to 4-in. × ⅜ to 1-in	1.75
1½ to 4-in. × ¼ to 5/16	1.85
Rods—⅝ & 11/16 round & square	1.85
Angles:	
3-in. × ¼-in. and larger	2.00
3-in. x 3/16-in. and ⅛-in	2.25
1½ to 2½-in. × ⅛-in	2.25
1½ to 2¾-in. × 3/16-in. and thicker	2.60
1 to 1¼ × 3/16-in	2.10
⅞ × ⅛-in	2.30
¾ × ⅛-in	2.40
⅝ × ⅛-in	3.45
½ × 3/32-in	4.25
Tees:	
1-in.	2.65
1¼-in.	2.45
1½ × 2½ × ¼-in	2.15
1½ × 2½ × 3/16	2.35
3-in. and larger	2.15
Beams	2.00
Channels, 3-in. and larger	2.00
Bands—1½ to 6 × 3/16 to No. 8	2.30
Norway bars	3.60
Bessemer Machinery, Steel	1.90
Cast steel, base	7.00
Special cast steel, base	14.00 to 15.00

LAG SCREWS.—Quotations are without change. Cone point lag screws are sold at a discount of 75 and 10% from list. Net prices are as follows:

	Net price per 100: ¼-inch.	¾-inch.	1-inch.
3½-inch	$1.17	$2.40	$5.00
4 -inch	1.25	2.55	5.25
4½-inch	1.33	2.70	5.50
5 -inch	1.40	2.85	5.80
6 -inch	1.58	3.20	6.40
7 -inch	1.73	3.50	7.00
8 -inch	1.82	3.85	7.60
9 -inch	2.05	4.10	8.20
10 -inch	2.25	4.45	8.75
11 -inch	2.40	4.70	8.30
12 -inch	2.60	5.00	9.90

CHAIN.—Following the reduction of 15 cts., last month prices are unchanged and following are named for cask lots of 500 lbs. to consumers. The quotations are per 100 lbs., f. o. b. Pittsburg:

Size in ins.	Proof.	BB.	BBB.
3/16	$8.10	$9.35	$9.85
¼	5.55	6.80	7.30
5/16	4.55	5.80	6.30
⅜	4.00	5.25	5.75
7/16	3.70	4.95	5.45
½ and 9/16	3.50	4.75	5.25
⅝	3.40	4.65	5.15
¾	3.30	4.55	5.05
⅞	3.20	4.45	4.95
1	3.10	4.35	4.85
1⅛ and 1¼	3.20	4.45	4.95

Prices of hand-made chains are unchanged.

Size in inches.	BBB crane chain.	BBB crane, dredge hoisting or steam shovel hoisting chain.	Special "Warwick" crane, hoisting steam shovel hoisting & dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.90	....
1	6.15	6.40	7.45	....
1⅛	5.75	5.95	6.90	....
1¼	5.65	5.90	6.85	....
1⅜ to 1⅞	5.55	5.75	6.80	....

COKE.—The output of coke shows a fair increase compared with last month. In the Upper and Lower Connellsville Region it is 324,000 tons weekly compared with 280,000 tons a month ago. Prices are not quite so firm for sales of Furnace coke for prompt shipment have been made at $1.45 to $1.55. On contracts for delivery during the remainder of the year some operators are asking $1.70 to $1.75 and others $1.90 to $2 per net ton at oven. The best grade of 72-hr. foundry coke are $2.10 for prompt shipment and $2.25 to $2.50 for long time contracts.

SPIRAL RIVETED PIPE.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized, with New York City being figured at a discount of 50, 10 and 10% from list. They are for orders amounting to about $250. For large orders of several carloads, prices are from 12½% to 20% cheaper.

Diameter in ins.	*Thickness of steel, Birmingham wire gage.	Net price per 100 ft. With bolted joints complete: Plain.	Asphalted.	Galvanized.
3	20	$21.80	$14.21	$20.70
4	18	19.76	21.48	30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	54.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.73	89.15	118.32
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.26	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

NAILS.—The advance of 5 cts. per keg noted last month did not result in as much new business as was expected. Wire nails in Pittsburg are now sold at $1.80 base in carload lots to retailers with an advance of 10 cts. for less than carload lots. In New York wire nails are sold from store at $2.05 per keg. Cut nails are unchanged at $1.65 per keg in carload lots Pittsburg, and $2 per keg from store New York. All of these prices are per 100 lbs.

WIRE.—An active demand is noted especially from Western consumers. It must be observed, however, that the largest buyers of wire are only buying for present needs.

Revised quotations on plain wire are as follows: Carloads, annealed, $1.55; galvanized, $1.85. Less than carload lots are held at an advance of 10 cts. per 100 lbs. over these prices. Barbed wire in carload lots is $1.75 for the painted and $2.05 for the galvanized. An advance of 10 cts. per 100 lbs. is also charged for less than carload lots. Prices named are 100 lbs. at mill in the Pittsburg district.

SWEDISH STEEL.—Business is quiet. Prices are without change. Drill steel, either round, hexagon or octagon, is 6 cts. per lb. for all sizes ⅝ to 2 ins. For sizes 2⅛ to 3 ins. 7 cts. is quoted and 3⅛ to 4 ins. is 7½ cts.

Hollow drill rod is held at 12½ to 15 cts. for the imported.

Anvils of Swedish steel are held at 9 to 9½ cts. per lb. They weigh from 80 to 600 lbs.

SWITCH POINTS.—The following prices are named, f. o. b. mill for switch points in lots of ten or more pair: For 60-lb. rail, 10-ft. points, $16.25; 15-ft. points, $17.50 for 70-lb. rail,; 10-ft. points, $18; 15-ft. points, $25; for 80-lb. rail, 10-ft. points, $25.50; 15 ft. points, $27.75; for 90-lb. rail, 15-ft. points, $30.50; for 100-lb. rail, $33.50. All of the above are furnished with three rods, except the 10-ft. points for 60 or 70-lb. rail, which have only two.

BOLTS.—Prices are without change. The discount on common carriage bolts, to the retail trade and large consumers is 70 and 7½% from list, on bolts ⅜ × 6 ins., and smaller. The lowest price is 65 and 5% discount for larger and longer bolts. Net prices are as follows:

Length in inches.	Net price per 100. Diameter in inches: ⅜	½	¾
4	$0.74	$1.22	$2.86
5	0.83	1.36	3.15
6	0.92	1.52	3.50
7	1.22	1.65	3.75
8	1.34	1.80	4.25
9	1.45	1.95	4.50
10	1.55	2.20	4.75
12	1.75	2.40	5.25
14	1.90	2.70	5.90
15	2.05	2.85	6.25
18	2.40	3.25	7.20
20	2.60	3.50	7.75

FROGS.—For mill shipments of ten or more, prices are as follows: Bolted frogs No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs No. 7, riveted to ⅝-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to a ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail, $27.50.

REINFORCING MATERIALS.

EXPANDED METAL.—Prices continue steady. The following prices are for small lots from the warehouse, either New York or Pittsburg. Material concessions, however, would be made for large orders:

Mesh, ins.	Gage (Stubs).	Section in sq. in. per ft. width.	Weight, in lbs., per sq. ft.	Size of Standard Sheets in ft.	Price per sq. ft f.o.b. New York.
½	18	.209	.74	8 × 3 or 6 ft.	5.5
¾	13	.225	.80	6 × 8 or 12 ft.	6.2
1½	13	.207	.70	4 × 9 or 12 ft.	5.5
2	12	.166	.56	5 × 8 or 12 ft.	4.8
3	16	.083	.28	6 × 8 or 12 ft.	2.4
3	10	.148	.50	5.25 × 8 or 12 ft.	2.6
3	10	.178	.60	6 × 8 or 12 ft.	2.8
3	10	.267	.90	4 × 8 or 12 ft.	3.8
3	10	.356	1.20	6 × 8 or 12 ft.	5.
3	6	.400	1.38	3.5 × 8 or 12 ft.	6.2
3	6	.600	2.07	4.66 × 8 or 12 ft.	8.3
4	16	.093	.42	4.5 × 8 or 9 ft.	2.8
6	4	.245	.84	5 × 8 or 12 ft.	3.7
6	4	.368	1.26	5 × 8 or 12 ft.	5.

TRIANGULAR MESH.—The demand continues good. Shipments are now being made promptly.

The following quotations are for the lots of the size named f. o. b. mill in Pittsburg district:

Style No.	Cross sec. area per ft. width.	Price per 100 sq. ft.: Carload lots.	Less than carloads and more than 10,000 sq. ft.
4	.102	$1.03	$1.25
5	.077	.82	.99
6	.058	.65	.78
7	.041	.50	.61
23	.170	1.73	2.08
24	.142	1.48	1.80
25	.124	1.32	1.60
26	.110	1.20	1.45
27	.085	.98	1.19
28	.066	.81	.98
29	.049	.67	.81
31	.261	2.55	3.08
32	.225	2.20	2.67
33	.196	1.96	2.38
34	.146	1.51	1.82
35	.109	1.20	1.45
36	.075	.89	1.07
38	.380	3.62	4.38
39	.325	3.12	3.77
40	.283	2.74	3.30
41	.208	2.08	2.52
42	.151	1.58	1.92
43	.101	1.13	1.36

This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

BARS, CONCRETE REINFORCING.—In the Chicago market there has been spirited competition in bars and prices fell as low as 1.25 cts. base, although it quickly rebounded to 1.30 cts. base. In Pittsburg 1.40 cts. is demanded for concrete bars and the following quotations are based on that price:

	Cts. per lb.: Plain.	*Deformed.
¾-inch and larger	1.40 to 1.50	1.45 to 1.55
⅝-inch	1.45 to 1.55	1.50 to 1.60
½-inch	1.50 to 1.60	1.55 to 1.65
⅜-inch	1.65 to 1.75	1.70 to 1.80
¼-inch	1.90 to 2.00	1.95 to 2.05

Bar from stock Pittsburg are usually cut to the required length without extra charge. Prices per lb. are as follows:

	Cts. per lb.: Plain.	*Deformed.
¾-inch and larger	1.60 to 1.70	1.70 to 1.80
⅝-inch	1.65 to 1.75	1.75 to 1.85
½-inch	1.70 to 1.80	1.80 to 1.90
⅜-inch	1.85 to 1.95	1.95 to 2.05
¼-inch	2.10 to 2.20	2.20 to 2.30

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*The price of deformed bars varied according to the shape and some are held much higher than these prices.

EXPANDED LATH.—Prices are unchanged. The price for carload lots given below are f. o. b. mill Central Ohio:

Carload Lots. Price in cts. per sq. yd.

Gage.	Weight per sq. yd.	Black.	Painted.	Galvanized.
27	2¼ lbs.	11½	12¼	17½
26	2½ lbs.	12½	13¼	18½
25	2 lbs.	13½	14¼	19½
24	3.4 lbs.	14½	15¼	20½

Small Lots from New York Store.

Prices in cents per sq. yd.

27	13	13¾	19
26	14	14¾	20
25	15	15¾	21
24	16	16¾	22

This lath is packed 9 sheets to the bundle.

DIAMOND LATH FROM STORE.

Designation.	Gage.	Weight per sq. yd.	Price. Per sq. yd. Black, cts.
A	24	4 lbs.	20
A Special	24	4 lbs.	18
B	27	2.9 lbs.	16½
B Special	27	2.9 lbs.	15
B B	27	2.33 lbs.	14
Square Twist	24	4 lbs.	20
Diamond No. 24	..	3.75 lbs.	20
" No. 24 Special	..	3 lbs.	16½
" No. 26	..	2.66 lbs.	16½
" No. 26 Special	..	2.1 lbs.	14
Square Twist No. 27.	..	2.75 lbs.	14½

INTERLOCKING PLATES.—For interlocking steel plates of 24 gage black steel f. o. b. mill Central Ohio, the following prices are named:

Length.	Per 100 sq. ft. Weight.	Price. Flat Sheets.
Under 4 ft.	100 lbs.	$11.00
4 to 6 ft.	160 lbs.	10.00
6 to 8 ft.	160 lbs.	9.50
8 to 10 ft.	160 lbs.	9.00
10 ft.	160 lbs.	8.50

Curved sheets are held at an advance of $1 per 100 sq. ft. over flat.

LUMBER.

The markets have been quiet, but a distinct improvement has been noted in the takings by consumers. Stocks are not especially large, and it is evident that more lumber has been going into actual consumption than mill owners have been willing to admit. The Canadian reciprocity bill has undoubtedly had a depressing effect. Should the treaty be ratified it would mean that much lumber would come across the Canadian line which would be used in the United States, and would undoubtedly cause a decline in prices here. Such a condition has been a possibility for a number of years, but the trade would very quickly adjust itself to any changes. The manufacturers of Southern pine in the Southwest report that the production from 218 of the principal mills amounted to 18,067,000 ft. last year. This is an increase of 1,800,000 ft., compared with the previous year.

HEMLOCK.—The demand for hemlock is chiefly at interior points, where there is no water freight competition. The base price of Pennsylvania hemlock continues without change at $21. West Virginia can be had at $20.50. The following prices are ruling in New York, and are unchanged from a month ago:

Price Per Thousand f. o. b. cars New York.

Size.	Length 10 ft.	12 ft.	14 ft.	16 ft.
2 × 4-in.	$23.00	$21.00	$21.00	$23.00
2 × 6-in. to 2 × 10-in.	21.00	21.00	21.00	18 to20
3 × 4-in. to 12 × 12-in.	21.50	21.50	22.00	19 to 21
1 × 8-in.	....	18.00	18.00	18.00
1 × 10-in. and 1 × 12-in.	....	18.50	18.50	18.50

LONG-LEAF YELLOW PINE.—More inquiry has developed for the long sticks, but the demand cannot be called good. Prices are without change and for delivery from yard in New York and vicinity, for material classed as "Merchantable" under the 1905 rules of the Association prices are as follows:

Prices per Thousand Feet in Yard, New York.

	Length 20 ft. base,	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
2 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in. wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft. add from $4 to $8 to base price.

CROSS-TIES.—The economies decided on by some of the railways will undoubtedly result in fewer ties being purchased, but, on the other hand, the more prosperous companies and those who can obtain the funds for needed improvements will go ahead quietly and develop their properties whenever they can do so at a low cost.

The following prices, quoted f. o. b. New York by J. S. Baxter Co., 15 William St., New York City, are slightly lower than last month as follows:

		Cents each.
7 × 9-in. by 8 ft. 6-in.		75
6 × 9-in. by 8 ft.	nominal	72
6 × 8-in. by 8 ft.		67

Second-class, sound and square edge, are quoted as follows:

		Cents each.
7 × 9-in. by 8 ft. 6-in.		61
6 × 9-in. by 8 ft.	nominal	51
6 × 8-in. by 8 ft.	nominal	45

LATH.—The market is quiet. For 1⅝-in. lath, $3.75 to $3.80 is quoted. For 1½-in., the price is $3.35 to $3.40.

SPRUCE.—The Canadian reciprocity talk has had more to do with the lack of interest in the market than any other one thing. Building orders in Boston are held at $22.50 to $23.

NORTH CAROLINA PINE.—Prices are without change as follows: For pieces 20 ft. long and less, in car lots, New York prices per thousand, are as follows:

2 × 4-in.	$18	2 × 10-in.	$21
2 × 6-in.	18	2 × 12-in.	22
2 × 8-in.	18		

CLAY PRODUCTS.

HOLLOW WALL TILE.—Business is not especially active. Prices continue steady, and for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., are as follows:

Size.	Price per block, in cts.
4 × 12 × 12-in.	5.25
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.9
10 × 12 × 12-in.	10.5
12 × 12 × 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 × 12 × 12-in.	4.4
3 × 12 × 12-in.	4.4
4 × 12 × 12-in.	5.
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material concessions will be made.

DUCT TELEPHONE.—Small lots are sold at 4½ to 5 cts. per duct ft., but considerable concessions are made for desirable orders.

FLUE LINING.—Prices continue without change. The discount from list f. o. b. mill, is 85%. Delivered in New York, in small lots, they can be had at 78%. Based on a discount of 85% at the mill, net prices are as follows:

	Weight in lbs.	Price per ft.
4½ × 8½-in.	14	$0.04½
4½ × 13 -in.	20	.068
4½ × 18 -in.	40	.15
6 × 12 -in.	22	.075
7 × 7 -in.	15	.053
8½ × 8½-in.	18	.068
8½ × 13 -in.	28	.098
8½ × 18 -in.	45	.135
12 × 16 -in.	45	.15
13 × 13 -in.	38	.128
13 × 18 -in.	57	.18
14 × 16 -in.	60	.165
16 × 16 -in.	65	.24
16 × 20 -in.	80	.30
18 × 20 -in.	75	.30

SEWER PIPE.—Business is quiet and prices are slightly easier. The discounts applying to the Eastern List are revised as follows: For all sizes up to and including 24-in. 88% discount from list; for 27 and 30-in., 79% discount; for 33 and 36-in., 74% discount.

At these discounts the net prices per ft. for carload lots, f. o. b. factory, are are as follows:

2-in.	$0.024
3-in.	.024
4-in.	.030
5-in.	.036
6-in.	.048
8-in.	.066
10-in.	.096
12-in.	.12
15-in.	.163
18-in.	.228
20-in.	.27
21-in.	.323
22-in.	.36
24-in.	.39
27-in.	.94
30-in.	1.15
33-in.	1.62
36-in.	1.82

ROOFING TILE.—Prices are steady, and continue without change. The best grade of promenade roofing tile in flat blocks for high-grade roofs is sold at $20 per M. for run of kiln, and $30 per M. for selected. A cheaper form of tile with a smooth surface can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 × 9-in. blocks, f. o. b. factory. It requires 258 blocks to lay 100 sq. ft. of roof surface and, in consequence the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for the run of kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type, is sold at aproximately $8.50 per 100 sq. ft. of roof surface, f. o. b. factory. Glass tiles are sold at 60 cts. each. It requires 183 of these for 100 sq. ft. of roofing.

MILL SUPPLIES.

SHAFTING.—Trade is not especially active but discounts are unchanged from last month, at 57% off list for carload lots. Small lots are obtainable at 52% off, and delivery is allowed in base territory.

The following net prices per ft. are based on the 52% discount: ¾-in., 4 cts.; 1-in., 7 cts.; 1¼-in., 10.90 cts.; 1½-in., 14.20 cts.; 1¾-in., 19.10 cts.; 2-in., 25.50 cts.; 2¼-in., 32.50 cts.; 2½-in., 40 cts.; 2¾-in., 48.50 cts.; 3-in., 58 cts.; 3½-in., 85 cts.; 4-in., $1.08; 4½-in., $1.70; 5-in., $2.26; 5½-in., $2.90; 6-in., $3.70

CHAIN BELTING.—Trade is satisfactory. Prices continue unchanged.

From 3 HP. to 10 HP. 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in. center complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. center complete, $3 to $4 per HP.

PACKING.—Prices continue without change. The following qotations are for small lots in original packages:

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts.; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

BELTING.—Business is not especially active. Quotations are unchanged, the discount on rubber belting being 40% from list for the best grade; 40 and 10% for standard and 60 and 10% for competition. Leather belting is likewise without change at 55% discount for extra heavy; 60% heavy; 60 and 10% medium; 60 and 10 and 10% light; 70% shoulder, and 70 and 10% for standard.

The following net prices per ft. of rubber belting are computed at the above discounts. The price of leather belting is, as stated, unchanged from last month, and the prices may be found on page 61 of issue of Feb. 2.

Width, inches.	2-ply.	4-ply.	6-ply.	8-ply.
3	$0.16	$0.22	$0.33	....
4	.21	.30	.45	....
5	.26	.44	.55	....
6	.30	.51	.65	$0.87
7	.36	.55	.75	1.01
8	.40	.57	.87	1.15
9	.46	.64	.96	1.30
10	.51	.72	1.01	1.44
12	.60	.86	1.30	1.70
14	.72	1.01	1.53	2.01
16	.83	1.17	1.76	2.35
18	.93	1.34	2.00	2.65
20	1.04	1.49	2.25	2.98
22	1.17	1.67	2.50	3.33
24	1.30	1.85	2.76	3.70
26	1.42	2.04	3.06	4.08
28	1.58	2.22	3.33	4.45
30	1.69	2.40	3.60	4.80
34	1.94	2.79	4.16	5.54
38	2.22	3.15	4.70	6.30
42	2.46	3.50	5.30	7.00
46	2.75	3.88	5.80	7.72
50	3.02	4.25	6.40	8.50
56	3.40	4.80	7.20	9.60
60	3.67	5.20	7.80	10.40

LUBRICATING OILS.—Quotations continue without change, the following figures being named for 5-bbl. lots:

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless white, 32 to 34 gravity.	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Cast oil	15 to 17

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*Prices are according to test.

HIGH-SPEED STEEL.—There is a very fair demand for all kinds of high-speed steel. Prices are without change at 50 to 75 cts. per lb.

COTTON WASTE.—Baled waste in New York is 10 to 11 cts. per lb.

FIRE HOSE.—Prices of hose are unchanged. The standard grade of underwriters' cotton rubber-lined hose, 2⅝-in. diameter, warranted, 350 lbs. pressure, is sold in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

PAVING MATERIAL.

While very little actual business has developed there is more work contemplated in city paving and especially improving existing country highways than ever before.

ROAD OILS.—Prices continue unchanged, 30% asphaltum oil being quoted at 4 cts. per gal. Texico macadam asphalt, 90 to 95%, is 11 cts. per gal. f. o. b. New York or Philadelphia; A or X Tarvia in bbls. is 8½ to 9½ cts. per gal.; B grade in bbls. is 7 to 8 cts. per gal.

GRANITE BLOCK.—Prices are steady. Cape Ann blocks, delivered in New York City, are sold at $1.60 to $1.75 per sq. yd. Dressed block to lay with ¼-in. point is $2 to $2.10 per sq. yd.

ASPHALTUM.—Prices of asphaltum are steady and firm. Trinidad is quoted at $25 per net ton. California asphaltum is $26 to $30 per ton. f. o. b. New York and $16 to $19 at point of shipment.

PAVING BLOCKS, WOOD.—Prices continue without change, as follows: For long leaf yellow pine blocks having not less than 20 lbs. oil per cu. ft., $1.85 is quoted for 3-in. block; $2.05 for 3½-in. block and $2.25 for 4-in. block. All these prices are per sq. yd., f. o. b. New York.

VITRIFIED BRICK.—Quotations are more or less nominal. Prices are unchanged at 55 to 70 cts. per sq. yd. at point of shipment. Delivered in New York or New England territory brick is selling at $1 to $1.25 per sq. yd.

OILS AND PAINTS.

PETROLEUM PRODUCTS.—The demand is better than a month ago but prices are without change.

The Standard Oil Co. quotes the prices of crude oil in bbls. at the wells as follows: Pennsylvania, Second Sand and Tiona, $1.30; Mercer black is 87 cts.; Corning, 77 cts.; New Castle, 84 cts.; Illinois, 60 cts.; Illinois heavy, below 30 gravity, 52 cts.; Kansas heavy, 30 cts.

In the New York market petroleum from tank wagon is unchanged at 6 cts. per gal.

Auto naphtha is ½ ct. cheaper at 13¼ cts., but stove gasoline is unchanged at 13¾ cts.

Fuel oil is 90 cts. to $1 per bbl.

LINSEED OIL.—The Canadian Reciprocity while the cause of a general decline in the price of most agricultural products had practically no effect on the linseed oil market. Prices are higher than last month by about 5 cts. per gal.

Raw linseed oil is now selling at 95 to 96 cts. per gal. in 5-bbl. lots.

SPIRITS TURPENTINE.—Prices have again advanced and turpentine is now higher than any time in several years. Stocks at Southern points are low but there is little demand. Prices are 5 cts. a gal. higher than last month at 91½ cts. in New York; 87¾ cts. in Charleston, S. C.; 87¾ cts. in Savannah. All of these prices are for 5-bbl. lots.

PAINTS.—There is slightly more activity but the high price of linseed oil is limiting consumption.

Prices of white lead in oil are unchanged. For lots of 500 lbs. or over, in 250 and 500-lb. kegs, 7½ cts. per lb. is quoted; in 25 and 50-lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs, is 8 cts. per lb.

Graphite paint is moving slowly. The best grades of graphite paint in linseed oil can be purchased at $1.40 per gal.

Hydrox preservative paint is 75 cts. per gal. in bbl. lots, New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burnt Umber, 11 to 14 cts.

CHEMICALS.

There have been no price changes during the month. The following quotations are named for delivery in New York City for lots of fair size:

	Cts. per lb.	
Nitric acid, 30°	3.87½	to 4.25
Nitric acid, 40°	4.50	to 4.87½
Sulphuric, 60°	0.90	to 1.00
Sulphuric, 66°	1.00	to 1.25
Sal Ammoniac, lump	9.25	to 9.75
Sal Ammoniac, granulated	5.87½	to 6.00
Sal Ammoniac, gray	6.00	to 6.25
Sulphur, roll	1.85	to 2.15
Sulphur, flour	2.00	to 2.40
Sulphur, flowers	2.20	to 2.60
	Per gallon.	
Alcohol, grain, U. S. proof	$2.54 to	$2.57
Alcohol, denatured, 5-bbl. lots.	.41 to	.42
Alcohol, denatured, ½-bbls.	.46 to	.47
Alcohol, wood, 95 to 97	.52 to	.57
Alcohol, wood, purified	.80 to	..

LINE CONSTRUCTION.

ALUMINUM WIRE.—The demand is limited and prices are without change at 31 cts. base.

POLES.—Cedar poles are quoted as follows by the R. D. Dowie Pole Co., 432 New York Block, Seattle, Wash. The price is f. o. b. loading point:

Length in ft.	Diameter at top. 8-in.	9-in.
30	$2.70	....
35	3.15	3.50
40	3.60	4.00
45	...	4.50
50	...	5.00
55	...	5.50
60	...	7.20
65	...	9.75
70	...	10.50
75	...	11.25
80	...	12.00

White cedar poles are quoted by the Backus-Judd Lumber & Cooperage Co., Minneapolis, Minn., f. o. b. Rex, Mich., freight rate to Chicago 12 cts., as follows:

Length in feet.	Price each Diameter at top. 5-in.	6-in.	7-in.
25	$0.65	$1.10	$1.50
30	...	1.60	3.75
35	....	4.00	5.00
40	...	5.25	7.00
45	...	7.25	9.50
50	...	10.00	11.00

Chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.25
35	2.75	3.25	4.00
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

FIR CROSS ARMS.—Prices are unchanged as follows:

Length. Size, 3¼ × 4¼-in.	Price per arm in cts. Pacific Coast.	Chicago.	New York
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	43	48½
10 ft., 8, 10 and 12-pin	37	55½	67½

TELEGRAPH WIRE.—For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts. per lb. are as follows: "Extra Best Best," Nos. 6 to 9, 4⅜ cts.; Nos. 10 and 11, 4½ cts.; No. 12, 4⅝ cts.; No. 14, 5⅛ cts. "Best Best," Nos. 6 to 9, 3¼ cts.; Nos. 10 and 11, 3⅜ cts.; No. 12, 3½ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts. per 100 lbs.

INSULATORS.—Prices are without change. Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2, cable, $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

COPPER WIRE.—An open market for wire has brought prices down to a lower level than any time since 1904 or 1902. At these low prices, consumers have purchased freely. The principal buyers of wire, as far as the tonnage of copper is concerned, have had plenty of funds or at least good credit and have taken advantage of the opportunity. Sales have been made at 13⅜ cts. base. This is a decline of fully 2 cts. compared with a year ago. Considering the present price of copper it is less than the cost of manufacture.

METALS.

COPPER.—The copper metal trade was quiet during the first week of February, with electrolytic freely offered at 12.37½ cts., delivered 30 days and lake at 12.62½ cts. A poor statement from the Copper Producers Association for January was expected and consumers were not disposed to take the offerings until the report was made public. The producers' statement was fully as unfavorable as was expected. It showed that the net result of operations during January was an increase in stocks in first hands of 20,409,295 lbs. to 142,439,490 lbs. The deliveries into domestic consumption were only 42,078,557 lbs., and for export 53,208,739 lbs. The only feature of the report that could be called favorable is the item of production. This showed a lower rate of about 7,000,000 lbs. less than during December, 1910, and was an important factor in preventing a further decline in prices. A more important development, however, was the general improvement in business which became quite pronounced by the middle of the month. The most comspicuous improvement shown in copper products was in wire, and electric apparatus. Manufacturers of those goods have bought more freely during February than for several months, and the tone of the market is much firmer because of this buying.

The leading sellers are asking 12.50 cts. delivered 30 days for electrolytic, and 12.75 cts. for lake, and there is very little copper to be had at concessions from those prices from any source.

The London market for standard copper has been very inactive both in volume and price changes.

Exports of copper since Feb. 1, aggregate only 15,836 tons. The shipments during the corresponding period last year totaled 25,995 tons.

TIN.—A violent break occurred in pig tin prices immediately following the publication of the January statistics on the metal. Deliveries into American consumption were only 3,200 tons, and domestic supplies rose about 850 tons to 1,707. It had been anticipated that deliveries here would be at least 3,800 tons during January, and what looked like syndicate selling on a large scale in London started.

During the break in prices it was noticeable that little apparent effort was being made by the foreign syndicate to check the decline. An explanation of this attitude came later in the rumors that dissension had developed among the syndicated interests, and that the slightly unfavorable statistics was used as a pretext to drop prices on and eliminate the dissatisfied participants, and at the same time buy in their interest at a low figure. The trade generally accepted this as the truth of the case and the course of prices since has added strength to the rumor. From the low level the market made a violent rebound of about 5 cts.

The domestic market followed the London quotations closely during the first half of the month, but since then some wide differences have prevailed. Notwithstanding arrivals of tin have been heavy, supplies are closely held here and a premium of from 2 to 3 cts. per lb. has been demanded for spot. When the metal was selling at the equivalent of 43 cts. in London, sales were made in the local market at 45.87½ cts. The result was to reduce buying to a minimum, and some reduction of the difference has taken place, but at the close of business on Feb. 27, there was still a margin of about 1 ct. per pound, with spot offering at 43 cts.

Since Feb. 1, 3,248 tons of tin have arrived at Atlantic ports, and there are 3,310 tons afloat. It is estimated that deliveries into consumption will be about 3,600 tons for the month, and it is likely that enough of the afloat tin will be docked before the end of Feb. to add between 300 and 400 tons to local supplies.

SPELTER.—Consumers have shown more interest in spelter this month and as there has been little pressure to sell, prices have advanced about 25 points. Prime Western is bringing from 5.60 to 5.65 cts. in New York, and considerable talk is heard of a further advance before Spring.

LEAD.—The pig lead market has been quiet with a tendency towards lower prices. Independent interests have offered the metal at from 2½ to 7½ points under the American Smelting & Refining Co. All during February liberal lots were obtainable at 4.42½ cts. in New York from the former, while the leading seller continues to ask 4.50 cts. for shipment lead. The St. Louis market is quoted at 4.25 cts. to 4.30 cts.

	Per lb.
Sheet Lead:	
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe:	
Large lots	5.75 cts.
Small lots	6.40 cts.

MISCELLANEOUS METALS.—Small lots of metal and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass, sheets	.14½
Brass, rods	.14½
Solder, ¼ and ½ guaranteed	.24
Zinc, sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

OLD METALS.—Miscellaneous lots of scrap metal amounting to about a ton can be sold to dealers in New York at about the following prices:

	Cents.
Copper, heavy and crucible	10.75 to 11.00
Copper, heavy and wire	10.50 to 10.75
Copper, light and bottoms	9.75 to 10.00
Brass, heavy	7.25 to 7.50
Brass, light	5.75 to 6.00
Heavy machine composition	9.75 to 10.00
Clean brass turnings	7.25 to 7.50
Composition turnings	8.25 to 8.50
Lead, heavy	3.75
Lead, tea	3.50
Zinc, scrap	4.00

MISCELLANEOUS.

ROOFING SLATE.—Following the decline of last month, prices are unchanged.

Quotations are named per "square" or 100 sq. ft. of roof surface in carload lots of the sizes in most general use, f. o. b. quarry station:

	Per 100 sq. ft.
Vermont, sea green	$3.50 to $4.10
Pennsylvania, Bangor Ribbon	3.50 to 4.00
Maine, Brownsville No. 1	5.00 to 7.75
Maine, Brownsville No. 2	4.50 to 6.00
No. 1 Red	10.50 to 12.00
Unfading green	4.00 to 5.50
Genuine Bangor	4.00 to 6.50
Pen Argyle	4.00 to 5.50

ROPE.—There is no market strength to the market, but prices continue firm although unchanged.

Pure Manila is 8¾ to 9¼ cts. per lb.; second grade, 7¾ to 8¼ cts.; hardware grades, 7 to 7¾ cts. per lb. Pure Sisal is 6¾ cts. for the highest grades, and 6¼ cts. for less desirable grades. Jute rope in commercial sizes is 5¼ to 6¼ cts. per lb.

WATERPROOFING.—The prices for carload lots f. o. b. cars New York, are as follows: Hydrex waterproofing felt, $1.25 per 100 sq. ft.; Hydrex compound "A," 26 cts. per gal.; Hydrex compound "B," 18 cts. per gal.

Texaco waterproofing cement is $30 per ton in car lots, f. o. b. cars New York or Philadelphia.

Asphaltum for waterproofing is sold at $25 to $27 per net ton.

Glidden's graphite acid proof coating is sold at $1.25 per gal. in bbl. and ½ bbls., and $1.40 per gal. in 5-gal. cans. These prices are f. o. b. Cleveland or for delivery from warehouse, New York, Chicago, St. Louis, Boston or Atlanta.

Portland cement waterproofing by the McCormick Process is sold by the makers, McCormick Portland Cement Co., at 7 cts. per lb., delivered at the nearest railroad station, subject to the following discounts: Less than ton lots, 2%; less than five tons, 5%; less than ten tons, 5 and 2%; less than 20 tons, 5 and 5%; less than 30 tons, 5 and 7½%.

ROOFING CEMENT.—Prices are unchanged at $25 per ton for Texaco.

EXPLOSIVES.—Dynamite of the kind usually used by contractors is approximately 11 to 13 cts. per lb., f. o. b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20 to $1.40 per keg, of 25 lbs. in lots of 10,000 lbs. The following prices prevail on Trojan in carload lots, minimum 24,000 lbs., f. o. b. Pacific Coast points: No. 1, 13½ cts.; No. 2, 10½ cts.; No. 3, 10 cts. They have a disruptive force equivalent to 60%, 40% and 30% of nitroglycerine.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 20 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7 to $8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

ASBESTOS.—Asbestos building felt and sheathing in less than ton lots is 3½ cts. per lb. for the light, weighing from 6 to 30 lbs. per 100 sq. ft.; 4 cts. per lb. is charged for the heavy weighing from 45 to 56 lbs. per 100 sq. ft.

Millboard is made in standard sheets, 40 × 40 ins., and 41 × 40 ins. It varies in thickness from 1-32 to ½-in. and in weight from 2 to 27 lbs. per sheet. The net price in 100 lb. lots is 5 cts. per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in standard sheets, 36 × 48 ins., 42 × 48 ins., and 42 × 96 ins. The prices, f. o. b. factory, Nassau, N. H., are as follows:

Thickness.	Weight.	Price.
⅛-inch	1 lb.	$0.08
3/16-inch	1½ lbs.	.12
¼-inch	2 lbs.	.16
5/16-inch	2½ lbs.	.20
⅜-inch	3 lbs.	.28
7/16-inch	3½ lbs.	.28
½-inch	4 lbs.	.32
9/16-inch	4½ lbs.	.36
⅝-inch	5 lbs.	.40
¾-inch	6 lbs.	.44
⅞-inch	7 lbs.	.48
1 inch	8 lbs.	.52
1¼ inches	10 lbs.	.56
1½ inches	12 lbs.	.64
1¾ inches	16 lbs.	.72
2 inches	16 lbs.	.80

PAPER.—Prices are without change from last month, as follows:

Tarred Paper:	Per roll of 108 sq. ft.
Standard, 2-ply, 40 lbs.	$0.45
Extra heavy, 2-ply, 45 lbs.	.55
Standard, 3-ply, 60 lbs.	.65
Extra heavy, 3-ply, 70 lbs.	.75

Rosin Sized Sheathing:	Per roll of 500 sq. ft.
Light, 35 lbs.	$0.38
Medium, 30 lbs.	.45
Heavy, 40 lbs.	.60

LIGHTERAGE LIMITS.—The free delivery or "Lighterage Limits" in New York City are as follows: in Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shore at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Eristina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Port Cove, Astoria, Long Island City.

RUBBER.—Prices of rubber have advanced rapidly. One of the contributing causes was an increase in rubber share speculation in the London market. The wild wave of speculation which was witnessed last year has not been repeated but there has been enough to cause a flurry in the crude rubber market. There has, at the same time, been a greater demand for crude rubber.

The sharp advance in prices has amounted to 15 to 20%. Up River Fine is now $1.65 to $1.70 per lb. com[illegible] with $1.27 last month. Up River Par[illegible]rse is now $1.15 to $1.18, an advance [illegible] 20 cts. compared with last month. C[illegible] Ball is 2[illegible] cts. higher than last month [illegible] .20.

PINE TAR.—Prices of pi[illegible] have declined and kiln is obtain[illegible] $6.75 to $7.25, while retort can be [illegible] $6.50 to $7. These prices are for [illegible] 480 lbs.

GLASS.

SKYLIGHT GLASS.—Trade [illegible] Prices continue without change fro[illegible] last report, as follows:

Thickness, ins.	
1/8	[illegible] per sq. ft.
3/16	[illegible] cts.
1/4	[illegible] cts.

Wired skylight glass, ¼-in. [illegible] is 25 cts. per sq. ft.

VAULT LIGHTS.—Prices co[illegible] without change. Contractors furnishi[illegible]ir own molds can obtain glass at fro[illegible] 5 cts. per lb. Bull's eyes, 3-in. in di[illegible] are [illegible] cts .each, and square lights, 3[illegible] are 5 to 6 cts. each.

PLATE GLASS.—The price [illegible] changed from last month at 89% discou[illegible]m list. In the accompanying table the [illegible] price of polished plate glass is figured [illegible] this discount. These prices apply to th[illegible] only, an extra charge being made for [illegible]xing or cutting to special sizes.

WINDOW GLASS.—The mark[illegible] somewhat demoralized and manufa[illegible]rs have made some very attractive pri[illegible] to jobbers. While the discount from jo[illegible]rs' list is unchanged at 90 and 5%, thi[illegible]otation is not strictly adhered to.

The net prices per box of 50 sq. [illegible] at the discount named, are as follows:

American Window Gla[illegible]

Size of Glass, Ins.	Single Thi[illegible]ss. Price per box [illegible] sq. f[illegible] A.	B.
6 × 8 to 10 × 15	$2.27	$2.16
11 × 14 12 × 13 to 14 × 20	2.37	2.27
10 × 26 to 16 × 24	2.55	2.40
18 × 22 20 × 20 to 20 × 30	2.70	2.50
15 × 36 to 24 × 36	2.80	2.55
26 × 28 to 24 × 36	2.95	2.65
26 × 34 28 × 32 to 30 × 40 30 × 30	3.27	2.85
32 × 38 34 × 36 to 30 × 50	3.80	3.25
30 × 52 to 30 × 54	4.05	3.55

NET PRICES OF POLISHED PLATE GLASS IN DOLLARS.

Length, feet.	Width, Feet 1	1.5	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10
1	$0.24	$0.38	$0.50	$0.66	$0.86	$1.04	$1.18	$1.38	$1.52	$2.40	$2.86	$3.25	$3.75	$4.17
1.5	....	.59	.86	1.10	1.42	2.10	2.40	2.76	3.08	3.75	4.38	5.00	5.70	6.90
2	....	....	1.18	1.59	2.40	2.86	3.25	3.75	4.17	5.00	5.90	6.85	7.85	8.90
2.5	....	....	....	2.55	3.08	3.68	4.20	4.70	5.30	6.40	7.60	8.90	10.10	11.10
3	....	....	....	....	3.75	4.40	5.00	5.75	6.90	7.90	9.40	10.70	12.25	13.60
3.5	....	....	....	....	....	5.20	5.90	6.75	7.60	9.40	11.10	12.70	14.40	15.90
4	....	....	....	....	....	....	6.86	7.90	8.90	10.70	12.70	14.50	16.40	18.20
4.5	....	....	....	....	....	....	....	9.10	10.10	12.25	14.40	16.40	18.40	20.50
5	....	....	....	....	....	....	....	....	11.10	13.60	15.90	18.20	20.50	27.00
6	....	....	....	....	....	....	....	....	....	18.20	19.00	21.80	25.00	27.80
7	....	....	....	....	....	....	....	....	....	....	22.20	26.00	29.40	32.50
8	....	....	....	....	....	....	....	....	....	....	....	29.70	33.50	37.30
9	....	....	....	....	....	....	....	....	....	....	....	....	38.00	42.00
10	....	....	....	....	....	....	....	....	....	....	....	....	....	47.50
11	4.60	7.20	9.80	12.50	15.00	17.50	20.00	22.60	26.00	30.60	36.20	41.20	47.20	65.00
12	5.00	7.90	10.70	13.60	16.40	19.00	21.80	25.00	28.00	33.50	39.30	44.80	63.50	70.80
13	5.50	8.70	11.80	14.80	17.75	20.80	24.10	27.20	30.10	36.40	43.50	61.50	69.00	112.50
14	5.90	9.40	12.70	15.90	19.00	22.25	26.00	20.20	32.50	39.40	46.70	66.00	109.00	146.30
15	....	....	....	....	....	24.40	28.00	31.30	34.80	42.00	61.80	70.80	141.00	163.50
16	....	....	....	....	....	33.00	37.80	42.50	47.20	55.50	66.00	109.00	157.00	202.00
17	....	....	....	....	....	35.00	40.00	45.30	50.00	60.00	70.30	143.00	192.00	294.00
18	....	....	....	....	...	38.00	42.50	47.80	53.20	63.50	109.00	157.00	280.00	311.00

MISCELLANEOUS CONTRACTS.

(Continued from page 100.)

*WHARVES, ETC.—Philadelphia, Pa.—Bids will be received until noon, March 15, by the Lighthouse Inspector, Philadelphia, for rebuilding wharves, retaining walls, etc., at Edgemoor Lighthouse Dept., Delaware. For further information address Commander H. O. Stickney, U. S. N., Inspector.

IRON AND STEEL.—Philadelphia, Pa.—The contract has been awarded by the city to the PENNSYLVANIA STEEL CO., of Steelton, Pa., for the structural steel and iron necessary in the erection of the New Vine St. pier.

*DREDGING.—Wilmington, Del.—Bids will be received until 11 a. m., March 30, by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, for dredging Cat River and Bogue Bay, Va.

IMPROVEMENT TO PIERS.—Baltimore, Md.—The Maryland, Delaware & Virginia Ry. Co., W. Thompson, Gen. Mgr., Pier 1, Pratt St. Wharf, Baltimore, will make improvements to its Light St. piers. Pier 8 will be rebuilt.

COPPER, STEEL, ETC.—Washington, D. C.—Bids will be received until March 7 by the Bureau Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing at the navy yards and naval stations the following supplies: Norfolk, Va., Schedule 3359, brass and copper wire; Schedule 3363, brass cocks, brass and iron pipe fittings, four brass gate valves. Boston, Mass., Schedule 3362, 450 lbs. sheet brass, 1,436 lbs. sheet copper, 7,500 lbs. steel forgings; Schedule 3356, iron pipe fittings, drip valves, etc. Annapolis, Md., Schedule 3362, 12,500 lbs. wrought iron, 12,800 lbs. bar steel, 5,300 lbs. galvanized corrugated steel, 3,600 lbs. machine steel, 20,500 lbs. structural steel, 4,700 lbs. structural plates, steel, etc. Applications for proposals should designate the schedules desired by number.

PONTOON WAGONS, ETC.—Washington Barracks, D. C.—Bids will be received until noon, March 20, by Maj. W. J. Barden, Corps Engrs., U. S. A., Washington Barracks, for furnishing four tool wagons and ten pontoon wagons.

VAULTS.—Washington, D. C.—Bids were received as follows, on Feb. 20, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the construction in the new building of Engraving and Printing, Washington, of (a) stamp, (b) plate, and (c) money vaults: Bethlehem Steel Co., South Bethlehem, Pa., (a) $172,368, (b) $254,415, (c) $247,665; also the following sums for the complete work under various circumstances: $669,400, $703,240, $679,120, $712,960. York Safe & Lock Co., York, Pa., (a) $121,488; (b) $210,499; (c) $242,572. Remington Sherman Co., Philadelphia, (a) $196,000; (b) $285,000; (c) $338,000.

LEVEE.—Delta, La.—The State Board of Engineers on Feb. 21 awarded the contract to CLARK & HELGASON BROS. for constructing the Mascot Levee, about 24 miles above here, on the right bank of the Mississippi River, at 15.4 cts. per cu. yd. The contract comprises about 402,000 cu. yds.

*STRUCTURAL STEEL FABRICATION, ETC.—New Orleans, La.—Bids were opened on Feb. 21 by the Board of Commissioners of the Port of New Orleans for the fabrication and erection of the structural steel and cast-iron for the William A. Kernaghaun shed. The contract has been awarded to the FORT PITT BRIDGE WORKS, Pittsburg, Pa., at $96,000.

STEEL BARGES.—New Orleans, La.—Bids for furnishing two steel barges have been received as follows by Maj. H. Burgess, Corps Engrs. U. S. A.: (a) delivery at New Orleans; (b) at Memphis; (c) at LaCrosse; (d) at Neville Island, Pa.; (e) at Ambridge, Pa.: Johnson Iron Works, New Orleans, (a) $19,900; Southern Boiler & Tank Works, Memphis, Tenn., (a) $26,000, (b) $25,400; Milwaukee Bridge Co., Milwaukee, Wis., (a) $20,800, (c) $20,200; American Bridge Co., St. Louis, Mo., (a) $17,300, (d) $15,600; under modified specifications, (a) $16,500, (d) $14,800. DES MOINES BRIDGE & IRON CO., Pittsburg, Pa., (a) $15,900 (awarded contract), (e) $14,520.

LEVEE WORK.—Memphis, Tenn.—A contract has been awarded to J. S. NICHOLS, of Memphis, for 101,000 cu. yds. of levee enlargement near here.

MACHINERY, ETC., FOR DREDGE BOAT.—Nashville, Tenn.—Bids were received on Feb. 20 by Maj. William W. Harts, Corps Engrs., U. S. A., for furnishing and delivering the machinery, fittings, etc., for the dredge boat "Tishomingo": Marion Steam Shovel Co., Marion, Ohio, $18,000. (Paragraph 7, instructions to bidders, not fully complied with.) The Hayward Co., New York, $31,000. (Paragraph 7 not fully complied with. Point of delivery not as required.) The Vulcan Steam Shovel Co., Toledo, Ohio, $16,225 (recommended for acceptance). American Hoist & Derrick Co., $23,354 (No guarantee bond filed with bid. Paragraph 7 not fully complied with).

LOCK AND DAM.—Cincinnati, Ohio.—Bids were received as follows on Feb. 20 by Maj. H. Jervey, Corps Engrs, U. S. A., for constructing lock and dam No. 29, Ohio River, near Ashland, Ky.: Dravo Contracting Co., Pittsburg, Pa., $682,674; Bates & Rogers Construction Co., Chicago, Ill., $677,753; Sheridan-Kirk Construction Co., Cincinnati, $644,842.

LEVEE.—Hamilton, Ohio.—The City Council has adopted the plans submitted by John J. Hill, Consult. Engr., of Cincinnati, for the construction of a levee along the Miami River to protect the city from floods, and ordered the proposition voted upon by the citizens of Hamilton at the next regular election. The cost will be about $225,000. Noted on Feb. 23.

RETAINING WALLS.—Sandusky, Ohio.—The City Council is considering the construction of retaining walls at the foot of Jackson Road and Wayne St.

DRAIN.—Elkhart, Ind.—Plans are being prepared by the Commissioners of Elkhart County for the construction of the Soloman Thornton dam in Elkhart and St. Joseph Counties.

DREDGING.—Hartford City, Ind.—The Commissioners of Blackford County have taken steps toward letting contracts for the dredging of Little Lick Creek. Estimated cost $150,000. A contract has been awarded for the construction of the Futrel-Miles Ditch, in Washington Township, to the Sheron Drain Tile Co., of Marion, Ind.

DITCH.—La Fayette, Ind.—The Commissioners of Tippecanoe County are preparing plans and specifications on which to ask for bids for the construction of the Jeremiah Edwards ditch. John W. Graves is Supt.

STRAIGHTENING RIVER.—Petersburg, Ind.—The Commissioners of Pike County have engineers preparing plans and specifications on which bids will be received for the straightening of the Patoka River from Winslow to Dongola. A new channel will be cut for several miles.

DRAIN.—Princeton, Ind.—Plans and specifications for the construction of the Stemkel drain, in Union Township, are ready for bidders. The drain will include the dredging of Little Pigeon Creek. Estimated cost $75,000.

DITCH.—South Bend, Ind.—Bids were received on Feb. 25, by Ralph E. Keller, Construction Comr., South Bend, at the office of the County Surveyor, for the construction of drainage ditches petitioned for by Willard Crofut and others. The contract has been awarded to JOHN CUNNINGHAM, at 15 cts. per cu. yd.

DITCH.—Vincennes, Ind.—A petition has been granted by the Commissioners of Knox County for the construction of six miles of ditch in Decker Township. The ditch will reclaim a large area of land.

FREIGHTERS.—Detroit, Mich.—The Shenango Steamship Co. has awarded a contract to the GREAT LAKES ENGINEERING WORKS, of Detroit, for constructing two lake freighters, 64 ft. beam and 617 ft. long.

SAND, ASPHALT, STONE.—Detroit, Mich.—Contracts have been awarded by J. [illegible] Haarer, Comr. Pub. Wks., as follows: To C. H. LITTLE & CO., Penobscot Bldg., Detroit, for all sand required by the asphalt plant for the year ending Jan. 31, 1912, at 70 cts. per cu. yd.; to the BARBER ASPHALT PAVING CO., for all asphalt required by the asphalt plant, for year ending Jan. 31, 1912, at $21.60 per ton for Trinidad brand, and at $29.10 for Bermudez; to R. F. CONWAY & Co., at [illegible] for Cubanel; to UNION OIL CO., at [illegible]; for all binder stone for same time, to the FAIRVIEW COAL & SUPPLY CO., Kercheval and Hart Aves., Detroit.

SAND SCOWS.—Detroit, Mich.—The C. H. Little Co., Penobscot Bldg., Detroit, are contemplating constructing a large modern steel sand scow, to be 216 ft. long, with a capacity of [illegible] cu. ft., and electric lighted. Estimated cost, $100,000.

ADDITION TO DRY DOCK.—Port Huron, Mich.—The Reid Wrecking Co., of Port Huron, it is reported, will build a 600-ft. addition to its dry dock here.

DRAINAGE DITCHES.—Broughton, Ill.—Bids will be received until 10 a. m., March 16, by [illegible] James Allen, Drainage Comr., Broughton, for the construction of the ditches of North Fork Special Drainage District, in Hamilton and Salina Counties. It is estimated that 2,270,725 cu. yds. of dirt are to be removed; 1,900,000 cu. yds. guaranteed.

DRAINAGE DITCH.—Mount Carmel, Ill.—Bids will be received until March 4 by the Drainage Commissioners, District No. 10, F. C. [illegible], Secy., r. f. d. No. 4, for constructing a drainage ditch. Excavation, 90,000 cu. yds.

DRAINAGE DITCHES. — Newton, Ill.—All bids opened on Feb. 18 for constructing ditches in Mint Creek Drainage District, the lowest bid being 19¾ cts. per cu. yd., were rejected. New bids will be received until March 15 at the County Clerk's office, Newton. [illegible] A. Connor & Son are Engrs., Newton.

ROCK.—Fountain City, Wis.—Contracts for rock for wing dam and protection work here have been awarded by the government as follows: 12,000 cu. yds. to WILLIAM GENTZKAV, of Minneiska, Minn.; 12,000 cu. yds. to CHARLES KIRCHNER, of Fountain City, and 16,000 cu. yds. to JOHN HARRY, of Alma, Wis.

HOSE HOUSE.—Oshkosh, Wis.—The Board of Public Works has awarded the contract for a hose house, at West New York and Central Aves., to J. T. RAYCRAFT, Oshkosh, at $9,500.

DRAINAGE.—Oshkosh, Wis.—The Larson Drainage District Commission is preparing its report to the Winnebago Circuit Court, Judge Michael Kirwan, and will recommend the drainage of 4,000 acres at the eastern end of Lake Poygan by the construction of a channel into Lake Winnebago, five miles long. Charles Oellereich, of Oshkosh, is Engr.

DRAINAGE. — Racine, Wis. — The Hoosier Creek Drainage District Commission, James English, Chn., has filed its report. The estimated cost of constructing the proposed canal and other work is $47,778; annual maintenance, $300. Judge E. B. Belden, of the Racine Circuit Court, has ordered a hearing for March 28. Peter J. Hurtgen, C. E., Burlington, Wis., is Surv. and Engr. Comn.

COAL - HANDLING PLANT. — Sheboygan, Wis.—The C. Reiss Coal Co. has awarded the contract for furnishing and installing a 440-ton coal-handling plant to HEYL & PATTERSON, of Pittsburg, Pa.

DITCH WORK.—Britt, Iowa.—Contracts for ditch work have been awarded by Hancock County as follows: To the INTER-STATE DRAINAGE & INVESTMENT CO., of Britt, for the open work north of the forks of the main ditch; to EDWARD BURGITT, of Garner, Iowa, for the open work south of that point; for laying the tile, to BENJAMIN BURGITT, of Garner; BOSH & GRAY, of Joplin, Mo., and the ANDERSON CO., of Vincent, Iowa. The ditch will have a total length of 60 miles. Estimated cost $226,000. Noted on Jan. 26.

DRAIN.—Estherville, Iowa.—The County Auditor will receive bids until 10 a. m., March 6, for the construction of County Drain No. 53, comprising 4,760 ft. of 6 and 8-in. tile.

DITCH.—Fairmont, Minn.—Bids were received and rejected on Feb. 21 by H. P. Edwards, County Audr., for constructing Judicial Ditch No. 10, requiring the removal of 51,977 yds. of earth and furnishing and laying 155,869 ft. of from 6 to 24-in. tile. Estimated cost, $65,760. New bids will be asked.

DITCHES.—Hallock, Minn.—C. J. Hemingson, County Audr., received bids on Feb. 20 for the construction of Judicial Ditch No. 32, approximating 145,909 yds. of excavation. Estimated cost, $16,050; and for the construction of Judicial Ditch No. 31, approximating 197,204 yds. of excavation, estimated to cost $21,692. The contract has been awarded to FORRESTAL & FEYEN, of St. Paul, Minn.

DITCH.—Olivia, Minn.—Bids will be received until 2.30 p. m., March 15, by J. L. Johnson, County Audr., Olivia, for digging and construction of Judicial Ditch No. 9. Estimated yardage, 166,275 cu. yds.; cost, $11,727. Bids may be submitted for the work as a whole, and also for one or more sections of 100 ft. each, and also for one or more of the construction jobs; each of said sections to be known and numbered by stakes, as shown by the report of the engineer.

DRAINAGE TILE.—DeSmet, S. Dak.—P. A. Carroll, County Audr., will receive bids until March 6 for about 25,000 ft. of drainage tile.

DRAINAGE DITCH.—Tyndall, S. Dak.—The Commissioners of Bon Homme County, Tyndall, have planned the construction of a 10-mile drainage ditch in the southern part of the county.

DRAINAGE DITCH.—Blairstown, Mo.—The Commissioners of Big Creek Drainage District No. 1 are considering the construction of 13 miles of drainage ditch. Brooks & Jacoby, are Engrs., Shubert Bldg., Kansas City, Mo.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
3-10	Water and sewer work, Fort Andrews, Mass. (P. & S.)	2-16
3-14*	Pontons, Rock Island, Ill. (P.&S.)	2-16
3-15*	Tunnel, Bonanza, Colo. (S.)	2- 9
3-16	Storehouse, Fort Strong, Mass. (P. & S.)	2-16
3-18	Quay wall extension, Portsmouth, N. H. (S.)	2-23
3-24*	Pipe, etc., Lewistown, Mont. (S.)	3- 2
3-25	Dredging, Boston, Mass. (S.)	2-23

Light, Heat and Power Plants.

Bids close.		Noted in issue of
3- 6	**Heating and vent., New York**	2-23
3- 6	**Steam boilers, New York**	2-23
3- 6	Heating & ventilating, Howard, R. I.	3- 2
3- 6	Lamps, gas, etc., Yonkers, N. Y.	3- 2
3- 7	Heating, wiring, etc., Fort H. G. Wright, N. Y.	3- 2
3- 7	**Lighting system in post-office, Keokuk, Iowa.**	2-16
3- 8	**Fixtures, Cleveland, Ohio**	2- 2
3- 9	**Electrical equipment, New York**	2-23
3-10	Lighting fixtures, Wash., D. C.	3- 2
3-10	Lighting and water system, Adair, Iowa.	3- 2
3-14*	**Hydraulic turbines, Phoenix, Ariz.**	2-23
3-14*	**Electric apparatus, Phoenix, Ariz.**	2-23
3-15	Electric-light plant, Monticello, Ark.	3- 2
3-15*	Electric generating plant, etc., Poughkeepsie, N. Y.	3- 2
3-20	Conduit and wiring system, Plattsmouth, Neb.	3- 2
3-21	Lighting fixtures, Aiken, S. C.	3- 2
3-22	Generators, Calgary, Alta	3- 2
4-19	Generators, etc., Australia (Foreign)	3- 2

Bridges.

Bids close.		Noted in issue of
3- 3	**Bridge, Topeka, Kan.**	2- 3
3- 4	Bridges, Courtland, Va.	3- 2
3- 4	Bridge, Terre Haute, Ind.	3- 2
3- 4	**Bridge, Lanark, Ont.**	2-16
3- 6	**Bridges, White Plains, N. Y.**	2-16
3- 6	**Draw-bridge, Port Clinton, Ohio.**	2-16
3- 6	**Arches, etc., Los Angeles, Cal.**	2- 2
3- 6	**Bridge, South Pasadena, Cal.**	2-23
3- 6	Bridge, Fredericton, N. B.	3- 2
3- 6	Bridge, Shelton, Wash.	3- 2
3- 6	Bridges, Grand Forks, N. Dak.	3- 2
3- 6	Bridges, Spottsylvania, Va.	3- 2
3- 7	Bridge, Anacortes, Wash.	3- 2
3- 7	Bridges, Rockport, Mo.	3- 2
3- 7	Arches, Martinsville, Ind.	3- 2
3- 7*	Viaduct repairs, Troy, N. Y.	2-23
3- 7	**Bridges, Janesville, Wis.**	2-16
3- 9	**Bridges, Vincennes, Ind.**	2-23
3- 9	Bridges, Nebraska City, Neb.	3- 2
3- 9	Bridge, Philadelphia, Pa.	3- 2
3-10	Bridge, Grass Lake, Minn.	3- 2
3-11	Bridges, Winchester, Ind.	3- 2
3-11	Bridge, Lawrence, Kan.	3- 2
3-11	Superstructure, Hamilton, Ohio.	2-23
3-14	Bridges, Grand Island, Neb.	3- 2
3-15	**Bridge, Clinton, Ark.**	2-16
3-15*	Bridge, Cedar Rapids, Iowa	3- 2
3-15*	Bridges, Ellicott, N. Y.	3- 2
3-15	Bridge, Ypsilanti, Mich.	3- 2
3-20	Bridges, Greenfield, Ind.	3- 2
3-21	Bridge work, Cambridge, Ohio	3- 2
3-21	Bridge work, Coshocton, Ohio	3- 2
3-22	Bridge work, Cleveland, Ohio	3- 2
4- 3	Bridges, Idagrove, Iowa	2-23
4-15	Bridge, Minnitonas, Man.	3- 2
4-15	Bridge, Swan River, Man.	3- 2
——	Bridge, Republic, Mich.	3- 2

Buildings.

Bids close.		Noted in issue of
3- 2	School, Vallonia, Ind.	3- 2
3- 3	School, Lakewood, Ohio	2-23
3- 3	School, Ashland, Ore.	2- 9
3- 4	Building, Belleville, Ont.	3- 2
3- 6	School, Albert Lea, Minn.	3- 2
3- 6	Engine houses, Kansas City, Mo.	3- 2
3- 6	Building, Warren, Minn.	3- 2
3- 6	School, Cleveland, Ohio	2-23
3- 7*	**Hospital, New London, Conn.**	2- 9
3- 7	Building, Ocala, Fla.	3- 2
3- 7	School, Terre Haute, Ind.	3- 2
3- 7	Building, Terre Haute, Ind.	3- 2
3- 8	Factory, Clintonville, Wis (Mfg. Pl.)	3- 2
3- 8	School, Union Hill, N. J.	3- 2
3- 8	Improvement to school, Providence, R. I.	3- 2
3- 8	**School, Lucasville, Ohio**	2-23
3- 9	School, Wabash, Ind.	3- 2
3- 9	School, Howells, Neb.	3- 2
3- 9	Building, Starbuck, Minn.	3- 2
3- 9	School, Wabash, Ind.	3- 2
3-10	Addition to hotel, Monroe, La.	3- 2
3-10	Erect of school, Vallania, Ind.	3- 2
3-11	School, Claremont, Cal.	3- 2
3-13	School, Waseca, Minn.	3- 2
3-13	Addition to school, Yonkers, N. Y.	3- 2
3-13	Building, Cincinnati, Ohio	3- 2
3-13	Public building, Harriston, Ont.	3- 2
3-15	Hotel, Dayton, Ohio	3- 2
3-15	Building, Mitchell, S. Dak.	3- 2
3-15	Building, Braddock, Pa.	3- 2
4-15	Building, Waterbury, Conn.	3- 2
3-15	**Edifice, Grand River, Iowa**	2-23
3-15	**Bldg., Merril, Wis.**	2-16
3-15*	**Erection of bldgs., Fort Andrews, Mass.**	2-16
3-17*	**Barrack, Fort Monroe, Va.**	2-23
3-18	**School, Frederick, Md.**	3- 2
3-21	**Bank building, Norman, Okla.**	3- 2
3-21	Hospital, Toledo, Ohio	3- 2
3-22*	**Buildings, Tompkinsville, N. Y.**	2-23
3-29	Erection of building, Troy, N. Y.	3- 2
3-30	U. S. post-office, Alliance, Ohio	3- 2
3-31	U. S. post-office, Ionia Mich.	3- 2
4-10*	U. S. post-office, Connellsville, Pa	3- 2
4-15	**Plans, Havana, Cuba**	10-20

Water-Works.

Bids close.		Noted in issue of
3- 3	**Pumping engine, Mount Clemens, Mich.**	2-23
3- 3	**Gate valves, etc., Victoria, B. C.**	2- 9
3- 3	Pipe, etc., Toledo, Ohio	3- 2
3- 6	Well, Madison Lake, Minn.	3- 2
3- 6	Steel pipe, valves, etc., Kerrisdale, B. C.	3- 2
3- 6	Reservoir, etc., Wheaton, Ill.	3- 2
3- 6	Laying pipe, Columbus, Ohio	31 2
3- 6	**Tank and Tower, Bridgewater S. Dak**	2- 9
3- 6	**Main, Sheridan, Wyo.**	2- 2
3-7*	**Filters, etc., Ogdensburg, N. Y.**	2- 9
3- 7	**Water-works, Rockmart, Ga.**	2-16
3- 7	**Well, McComb, Miss.**	2-16
3- 7	**Water tower, Seattle, Wash.**	2-23
3- 7	Pipe, etc., Colville, Wash.	3- 2
3- 7	Water pipe, etc., Shawano, Wis.	3- 2
3- 8*	Water mains, Boone, Iowa	3- 2
3- 8	Pumping stations, New York	3- 2
3- 9*	Water pipe, etc., Grand Rapids, Mich.	3- 2
3- 9	Water-works, Fairbury, Neb.	3- 2
3- 9	Water-works machinery, St. Charles, Mich.	3- 2
3-10	Water and light system, Adair, Ia.	3- 2
3-10	**Water wheels, Phoenix, Ariz.**	2-23
3-10	**Water softening plant, Owensboro, Ky.**	2-23
3-10	**Diversion channel, Klamath Falls, Ore.**	2-16
3-10	**Water mains, Fort Andrews, Mass**	2-16
3-10	**Well, Vermillion, S. Dak.**	2-16
3-10*	**Reservoir embankment, Hornell, N. Y.**	2-16
3-11	**Water mains, Troy, Ohio**	2-16
3-11	Water main, Italy, (Foreign)	3- 2
3-13	Pumping sta., Pittsburg, Pa.	3- 2
3-13	Water-works, Janesboro, N. C.	3- 2
3-13	Water-works, New Lexington, O.	3- 2
3-13	Water meters, Vallejo, Cal.	3- 2
3-13	**Pipe, Pierpont, S. Dak.**	2-23
3-15*	Water-works, Spring Lake, N. J.	3- 2
3-16	Well, tank, etc., Gleichen, Alta.	3- 2
3-16	Reservoir, etc., Troy, N. Y.	3- 2
3-16	Reservoir work, Bozeman, Mont.	3- 2
3-18	Pump, Fort Bayard, N. Mex.	3- 2
3-20	Water-works, Gettysburg, S. Dak.	3- 2
3-20	Water trench, Souris, Man.	3- 2
3-20*	**Water-works, Bristol, Pa.**	2-23
3-20*	Pipe, hydrant, etc., Westbury, N. Y.	3- 2
3-21*	W-wks materials, San Augustine, Tex.	3- 2
3-21	Watermains, Grand View, Ohio	3- 2
3-21	Pumping engine, Ft. San Houston Tex.	3- 2
3-21*	Siphon work, New York, N. Y.	3- 2
3-22	Water pipe, Vancouver, B. C.	3- 2
3-24*	Pipe, Lewistown, Mont.	3- 2
3-24*	Hydrants, valves, etc., Lewistown, Mont.	3- 2
4- 1	**Water-works, West Telford, Pa.**	2- 2
4- 3*	**Water main, Galveston, Tex.**	2-23
4-15	**Storage dam, Wells, Nev.**	2-23
4-15*	Dam, etc., North Yakima, Wash.	3- 2
4-15*	Water softening plant, Ft. McKinley, Me.	3- 2

Sewers.

Bids close.		Noted in issue of
3- 3	**Sewers, etc., Vancouver Barracks, Wash.**	2-23
3- 3	**Sewers, Washington, D. C.**	2-23
3- 3*	**Sewers, Watertown, N. Y.**	2- 9
3- 3*	**Sewers, Bement, Ill.**	2-16
3- 7*	**Sewers, Bridgeton, N. J.**	2-16
3- 7	Sewers, Shawano, Wis.	3- 2
3- 9	Sewers, Hamilton, Ont.	3- 2
3- 9	Sewers, Newark, N. J.	3- 2
3- 9	Sewer, Tracy, Minn.	3- 2
3- 9*	**Sewers, Pocatello, Idaho**	2-16
3-14*	**Sewer, Atlanta, Ga.**	2-16
3-15	Sewers, Jacksonville, Fla.	3- 2
3-15*	Sewers, Baltimore, Md.	3- 2
3-16	**Sewer system, Rector, Ark.**	2- 2
3-20*	**Sewer system, Bristol, Pa.**	2-23
3-20	**Sewer, Fort Washington, Md.**	2-23
3-20*	Sewers, Stamford, Conn.	3- 2
3-20	Sewers, Souris, Man.	3- 2
3-21	**Sewer, Grand View, Ohio**	2-23
3-21*	**Sewers, Moundsville, W. Va.**	2-23
3-24*	Sewers, Louisville, Ky.	3- 2
7- 3	**Sewage disposal system, San Jose, Cal.**	2-23

Streets and Roads.

Bids close.		Noted in issue of
3- 3	Pavements, Victoria, B. C.	3- 2
3- 3	Paving, Louisville, Ky.	3- 2
3- 4	**Paving, Sweet Water, Tex.**	2-16
3- 6	**Road construction, Rockville, Ind.**	2-16
3- 6	**Road construction, Jeffersonville, Ind.**	2-16
3- 6	**Road construction, Spottsylvania, Va.**	2-16
3- 6	**Road construction, Huntington, Ind.**	2-16
3- 6	**Culverts, etc., Plainfield, N. J.**	2-23
3- 6	**Paving, Aliquippa, Pa.**	2-23
3- 6	**Road, Williamsport, Ind.**	2-23
3- 6	**Roads, Fowler, Ind.**	2-23
3- 6	Road improvements, St. Paul, Minn.	3- 2
3- 6	Street improvements, St. Paul, Minn.	3- 2
3- 6	Stone, Franklin, Ind.	3- 2
3- 6	Pavement, Irvington, N. J.	3- 2
3- 7	Road construction, Bernardsville, N. J.	3- 2
3- 7	Sidewalks, Lorain, Ohio	3- 2
3- 7	Street work, Omaha, Neb.	3- 2
3- 7	Pavement, Columbia, Mo.	3- 2
3- 7	Paving, etc., New York, N. Y.	3- 2
3- 7	Roads, Logansport, Ind.	3- 2
3- 7	Roads, Wabash, Ind.	3- 2
3- 7	**Road, Rockville, Ind.**	2-23
3- 7	**Grading, etc., Wooster, Ohio**	2-23
3- 7*	**Paving, Monroe, Wis.**	2-23
3- 8	Grading, etc., Olympia, Wash.	3- 2
3- 9	Paving, Newark, N. J.	3- 2
3- 9	**Cement, Savannah, Ga.**	2-16
3- 9	**Road construction, Jackson, Miss.**	2- 9
3-10	**Culvert, Cincinnati, Ohio**	2-23
3-10	Regulating, etc., New York, N. Y.	3- 2
3-10	Road, La Fayette, Ind.	2-23
3-11	Roads, Brazil, Ind.	2-23
3-13	Grading, Worthington, Minn.	2-23
3-13	Curbing, etc., New York, N. Y.	3- 2
3-13	Grading, etc., Lebanon, Ind.	3- 2
3-14*	Paving, Memphis, Tenn.	3- 2
3-15*	Grading, etc., Meadville, Pa.	3- 2
3-15	Grading, etc., Olympia, Wash.	3- 2
3-15	Sidewalks, Calgary, Alta.	3- 2
3-17	Road construction, Paoli, Ind.	3- 2
3-17	Road work, Cincinnati, Ohio	3- 2
3-18	Paving, Oshawa, Ont.	3- 2
3-18	Road, Bowling Green, Ohio	2-23
3-20	Gravel roads, Anderson, Ind.	3- 2
3-20	Grading, Greenfield, Ind.	3- 2
3-20*	Paving, Portsmouth, Va.	3- 2
3-20*	Road improvements, Albany, N. Y.	3- 2
3-21*	Walks, etc., Fort Monroe, Va.	2-23
3-22*	Road improvement, Albany, N. Y.	3- 2
3-24*	Road improvement, Albany, N. Y.	3- 2
4- 1	**Asphalt, Logansport, Ind.**	2-16
4- 5	Road impvt., Coupeville, Wash.	3- 2
4- 6	Curbing, etc., Cambridge, Md.	3- 2

Miscellaneous.

Bids close.		Noted in issue of
3- 3	**Retaining wall, Cincinnati, Ohio**	2-16
3- 3	**Cement, Leavenworth, Kan.**	2-16
3- 3	**Motor car for Tramway, Winnipeg, Man.**	2-16
3- 3	**Metal vault linings, etc., New York.**	2-16
3- 3	**Steel castings, etc. Panama (U. S. Poss.)**	2-23
3- 3	**Garbage disposal (Garbage), Troy N. Y.**	2-23
3- 4	Drainage ditch, Mt. Carmel, Ill.	3- 2
3- 6	Fire stations, Kansas City, Mo.	3- 2
3- 6	Scow, etc., Philadelphia, Pa.	3- 2
3- 6	Fire house, Irvington, N. J.	3 1 2
3- 6	Drainage tile, DeSmet, S. Dak.	3- 2
3- 6	Hoisting chain, etc., Panama (U. S. Poss.)	3- 2
3- 6	**Granite steps, Los Angeles, Cal.**	2-16
3- 6	**Elevator, Los Angeles, Cal.**	2-16
3- 6	**Steel dredger chains, Argentine Republic (Foreign)**	2- 9
3- 6	**Vacuum cleaning system, Youngstown, Ohio**	2- 9
3- 7	**Ice piers, Cincinnati, Ohio**	2- 2
3- 7	**Storehouse, Rock Island, Ill.**	2-16
3- 7	**Ferryboat, Boston, Mass.**	2-16
3- 7	**Fire apparatus, Los Angeles, Cal.**	2-23
3- 7	Copper, steel, etc., Washington, D. C.	3- 2
3- 7	Stone, Belleville, N. J.	3- 2
3- 8	**Wharf, Ottawa, Ont.**	2-16
3- 9	Gravel, etc., New York	3- 2
3- 9	Park and playgrounds, New York	3- 2
3-13	Street sprinklers (Garbage) Mankato, Minn.	3- 2
3-13	**Steel ceilings, Columbus, Ohio**	2-16
3-13	Disposal plant, McKees Rocks, Pa. (garbage)	2-23
3-13	Repairing dock, New York, N. Y.	3- 2
3-13	Fire-alarm boxes, etc., New York	3- 2
3-14	**Roofs, etc., Des Moines, Ia.**	2-16
3-14*	**Pontons, Rock Island, Ill.**	2-16
3-14	**Wireless telegraphy installation, Australia (Foreign)**	1-19
3-14	Elec. light plant, Roumania (Foreign)	2- 9
3-14	**Torpedo boats, Washington, D. C.**	2- 9
3-14	Pipe, Toronto, Ont.	3- 2
3-14	Fire apparatus, Ottawa, Ont.	3- 2
3-15	Ditch, Olivia, Minn.	3- 2
3-15	Drainage ditches, Newton, Ill.	3- 2
3-15	Extension to break-water, Richiolucto, N. B.	3- 2
3-15*	**Wharves, etc., Philadelphia, Pa.**	3- 2
3-15*	**Tunnel, Bonanza, Colo.**	2- 9
3-15	**Mooring stones, Portland, Me.**	2- 9
3-15*	**Dredging, rock removal, New York**	2-16
3-16	**Ditch, etc., Rector, Ark.**	1-26
3-16*	**Additions to storehouse, Fort Strong, Mass.**	2-16
3-16	Drainage ditches, Broughton, Ill.	3- 2
3-16	Drain, Estherville, Iowa	3- 2
3-17	**Motor trucks, Toronto, Ont.**	2-16
3-17*	**Extending jetties, New Orleans, La.**	2-23
3-20	Ponton wagons, Washington Barracks, Wash.	3- 2
3-23*	**Dredging, Portland, Me.**	2-23
3-24*	**Rock railway material, Panama, (U. S. Poss.)**	1-26
3-25	**Railroad cars, Chile (Foreign)**	2-16
3-25	**Dredging, Boston, Mass.**	2-23
3-25	Dredging, etc., Newport, R. I.	3- 2
3-30	**Dams, etc., Panama (U. S. Poss.)**	1-10
3-30*	Dredging, Wilmington, Del.	3- 2
4- 1	**Bridge, Spain (Foreign)**	2- 2
4- 1	**Cruisers, destroyers, Ottawa, Ont**	2- 9
4- 3	**Copper roof, Franklin, Ind.**	2-16
4- 4	**Cable Australia (Foreign)**	2-23
4- 4*	Rail and ties, Toronto, Ont.	3- 2
4-15	Iron trucks, safes, etc., Egypt (Foreign)	3- 2
4-20	**Hospital, etc., (plans and designs) Argentine Republic (Foreign)**	1-12
8- 1	**Designs, etc., for monument, Cincinnati, Ohio**	2- 9

Examinations.

Examination date.		Noted in issue of
8- 8	**Civil Engineer, Wash., D. C.**	**2- 9**
3-13*	**Inspector of Gas and Gas-meters, Trenton, N. J.**	**2-23**
3-29	**Editorial Assistant, Wash., D. C.**	**2-23**

FIRE STATIONS.—Kansas City, Mo.—Bids will be received by the Board of Fire and Water Commissioners, until March 6, for constructing two fire stations, one to be located at 15th and Bennington Sts., and one at 26th and Prospect Sts.

LEVEE.—Kansas City, Mo.—Plans for spending $50,000 of the $75,000 in city bonds voted for building a levee and wharf along the water front, a distance of 520 ft., between Delaware and Walnut Sts. were approved by the Mayor on Feb. 20. Four hundred and seventy-five creosoted pine piling, each 55 ft. long, will be driven to the rock bed of the Missouri River to protect the wharf which will be composed of creosoted block pavement. The remaining $25,000 will be spent in building a warehouse for receiving and shipping freight, as soon as Missouri River transportation is resumed. Louis R. Ash is City Engr.

DITCH.—Rector, Ark.—The Commissioners of Drainage District No. 8, Clay County, have postponed indefinitely the letting of the contract for the construction of 24 miles of main ditch and 30 miles of laterals. Contract was to have been awarded on March 16.

LEVEE.—Van Buren, Ark.—The contract, it is reported, will soon be awarded for the construction of a levee in Crawford County Levee District. Bonds for $175,000 have been voted. E. L. Matlock is Secy., Van Buren.

CAUSEWAY.—Corpus Christi, Tex.—The project of J. E. Franklin, of St. Louis, Mo., Pres. St. Louis Trust Co., and of the Uvalde & Crystal City R. R. Co., looking to the construction of a causeway across the mouth of Nueces Bay, near here, and the establishment of a large system of irrigation, is taking definite shape. It is announced by Mr. Franklin that the preliminary details for the carrying out of the big enterprise have been arranged. The proposed causeway will be about six miles long and from 200 to 250 ft. wide across the top, in order to accommodate interurban electric railway track, steam railroad, wagon road and automobile speedway. It is stated by engineers that it will be necessary to construct only a small part of the causeway with reinforced concrete, as the flow of the river is not very large, except in time of flood. Spillways will be built to take care of the surplus flow of the stream which feeds the bay. Estimates of the cost of the proposed works range from $750,000 to $1,000,000. In addition to affording a perpetual supply of water for irrigating a very large acreage of land, the reservoir would give to the city of Corpus Christi a sufficient supply of water for all purposes. In connection with the water storage and irrigation enterprise, a hydroelectric plant will probably be installed to provide lights and power for Corpus Christi and other towns of the section.

DREDGING.—Galveston, Tex.—Bids were received on Feb. 11 by Maj. G. P. Howell, Corps Engrs. U. S. A., for dredging a channel between Brazos River and Matagorda Bay, 2,166,800 cu. yds. as follows: (a) price per cu. yd. for beginning at Brazos end of channel, (b) price per cu. yd. for beginning at Matagorda Bay end of channel: John Jacobson, Texas City, (a) 8.74 cts., (b) 10 1/5 cts.; Bowers Southern Dredging Co., Galveston, (a) 9.5 cts., (b) 10.5 cts.; Southern Dredging Co., Mobile, Ala., (a) 14 cts., (b) 10 cts.; L. T. Gaylord, Houston, (a) 15.4 cts.; R. A. Perry, Galveston, (a) 16 cts., (b) 8 cts.; Home Dredging Co., Mobile, Ala., (a) and (b) 17 cts.

CONCRETE FENCE.—Oklahoma City, Okla.—The contract for the construction of a concrete fence around Fairlawn Cemetery has been awarded to RAYMOND & CROOK. Estimated cost $16,000.

FLOOR TRUSSES.—Portland, Ore.—The contract has been awarded to the NORTHWEST STEEL CO., of Portland, for 125 tons of floor trusses for the Multnomah Hotel here.

ROCK-CRUSHING PLANT.—Corona, Cal.—The Rhyolite Crushed Rock Co. has been incorporated, with $60,000 capital, by W. E. Harris, T. A. Sentell, and V. L. Peery, all of Santa Barbara, Cal. The company will construct a rock-crushing plant here, to cost from $90,000 to $100,000.

GRAIN ELEVATOR.—San Francisco, Cal.—The State Board of Harbor Commissioners have received a bid of $13,500 from W. E. Keller for the construction of an electric grain elevator on Section 3 of the seawall.

EXTENSION TO BREAKWATER.—Richibucto, N. B.—Bids will be received until March 15 by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for the construction of an extension to the north breakwater at Richibucto, Kent County, N. B. Plans and specifications can be seen at the offices of E. T. Shewen, Dist. Engr., St. John, N. B.; Geoffrey Stead, Dist. Engr., Chatham, N. B.; and on application to the Postmaster at Richibucto.

DAM.—Ottawa, Ont.—Bids will be asked by the Department of Public Works for the construction of a dam at the foot of Quinze Lake. Estimated cost, $39,000. C. J. Ker is City Engr.

FIRE APPARATUS.—Ottawa, Ont.—Bids will be received by the Board of Control, until March 4, for the delivery of an automobile fire engine of a pumping capacity of 700 to 800 gallons per min., bidders to submit specifications and print of their respective engines.

*RAIL AND TIES.—Toronto, Ont.—Bids will be received, addressed to the Chairman of the Board of Control, City Hall, until noon, April 4, for delivery of 1,340 tons of open-hearth steel rail, 80-lb. section; also 30,000 untreated wood ties, white cedar preferred, although other woods will be considered. Specifications and forms of proposal may be obtained upon application at the office of C. H. Rust, City Engr.

PIPE.—Toronto, Ont.—Bids will be received, addressed to the Chairman of the Board of Control, City Hall, until noon, March 14, for the following: 3,400 lin. ft. of 60-in. reinforced concrete pipe and 9,727 lin. ft. of 66-in. reinforced concrete pipe. C. H. Rust is City Engr.

WHARF.—Winnipeg, Man.—The Lake Winnipeg Shipping & Supply Co. is considering the construction of a wharf on the Red River here.

HIGHWAYS.

Albany, N. Y.

Notice to Contractors—State of New York, Office of the State Commission of Highways, Albany N. Y.—Pursuant to the provisions of Chapter 30, Laws of 1909, sealed proposals will be received by the undersigned at their office, No. 55 Lancaster St., Albany, N. Y., at 1 o'clock P. M., on Monday, the 20th day of March, 1911, for the improvement of the following highways:

County.	H'way No.	Name.	Approx. Miles.
Albany	790	Cohoes City Line-Boghts Cor.	2.17
Albany	879	Shakers-Watervliet	6.40
Broome	858	Whitneys Point-Upper Lisle	4.27
Cattaraugus	695	Otto-Cattaraugus	1.21
Cattaraugus	697	Otto-E. Otto, Section II	2.27
Cayuga	687	Fair Haven-Sterling-Martville	5.30
Chautauqua	873	Brockton-Stockton	2.93
Chenango	666	Plymouth-Kirk	4.90
Clinton	777	Plattsburg-Cadyville	4.33
Columbia	763	Hollowville-Craryville	7.14
Columbia	5072	Livingston-Hudson, Part I	3.60
Columbia	5073	Livingston-Hudson, Part II	5.10
Columbia	5074	Schodack Ctr.-Valatie, Part IV	4.30
Dutchess	712	Amenia-Sharon Sta.	2.29
Franklin	884	Malone-Fort Covington, Part I	3.58
Franklin	885	Moira-South Bombay	8.58
Franklin	5076	Malone-Moira	5.22
Jefferson	625	Theresa-Antwerp, Part II	5.37
Jefferson	626	Burrs Mills-S. Champion	4.56
Rensselaer	659	Brunswick Ctr.-Lansingburg	5.07
Rensselaer	679	W. Stephentown-Stephentown Ctr.	4.14
Rensselaer	680	Stephentown Ctr.-Massachusetts	3.92
Rensselaer	5084	Schodack Ctr.-Valatie, Part III	2.90

Alternate proposals will also be received by the undersigned at the time and place above mentioned for State Highways 5072 and 5073 combined in one contract and also alternate proposals for State Highways 5074 and 5084 combined in one contract as follows:

County—Columbia. Road number—5072-Ext. Name of road—Livingston-Hudson, Parts 1 and 2. Approximate length—8.70 miles.

County—Columbia and Rensselaer. Road number—5074-Ext. Name of road—Schodack Ctr.-Valatie. Parts 3 and 4. Approximate length, 7.20 miles.

The Commission reserves the right to award contracts for State Roads 5072, 5073, 5074 and 5084 in the manner which shall be deemed most advantageous for the State, namely: Either on separate proposals for Roads 5072 and 5073 or on proposals for these two roads combined, and in the same manner on separate proposals for Roads 5074 and 5084 or proposals for these two roads combined.

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P. M., on Wednesday, the 22d day of March, 1911, for the improvement of the following highways:

County.	H'way No.	Name.	Approx. Miles.
Greene	886	Lexington-Prattsville	4.19
Greene	887	So. Cairo-Cairo	3.15
Genesee	5090	E. Pembroke-Pembroke, Part II	4.77
Hamilton	874	Nobleboro-Morehouseville	5.00
Lewis	5077	Martinsburg-Turin	3.08
Madison	883	De Ruyter-Otselic, Part I	2.14
Madison	5078	Wampville-Oneida Castle	2.56
Montgomery	409	Fort Plain-Starkville	6.22
Oneida	837	Waterville-Deansboro	4.77
Oneida	838	Saquoit	0.50
Oneida	839	Augusta-Knoxboro	1.21
Oneida	840	N. Brookfield-Waterville	4.37
Oneida	877	Clinton Village	0.97
Oneida	5079	Clayville Village	1.44
Onondaga	556	Manlius-Chittenango	3.22
Onondaga	557	Vesper-So. Onondaga	6.19
Onondaga	655	Jordan-Cross Lake	1.78
Onondaga	669	Pompey-Jamesville	5.97
Onondago	5080	Elbridge Village-Camillus, Part I	3.01
Oswego	772	Fulton-Hannibal, Part I	3.67
Oswego	825	Fulton-Oswego	4.51
Oswego	826	Pulaski-Orwell	5.94
Oswego	5082	Mexico-Union Square, Part II	2.92
Oswego	5083	Union Square-Pulaski, Part I	2.61

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P. M., on Friday, the 24th day of March, 1911, for the improvement of the following highways:

County.	H'way No.	Name.	Approx. Miles.
Ontario	639	Cheshire-McJennetts Hill	7.04
Ontario	5081	Lima-E. Bloomfield, Part II	5.26
Otsego	833	W. Exeter-W. Winfield	5.44
St. Lawrence	875	Elmdale-Gouverneur	5.83
St. Lawrence	876	Brasies Corners-Elmdale	3.82
St. Lawrence	878	Ogdensburg-Morristown, Part I	6.74
Saratoga	741	Saratoga-Corinth	4.06
Saratoga	815	Corinth-Hadley	6.22
Schenectady	793	Schenectady-Vischers Ferry	2.34
Schenectady	880	Schenectady-Duanesburg, Part I	2.79
Schoharie	5086	Gallupville-Vrooman	5.00
Seneca	324	Center Road-Fayette, Part I	3.19
Seneca	5087	Geneva-Waterloo	5.95
Warren	5088	Riverside-Wevertown, Part II	1.53
Washington	802	Smiths Basin-Hartford	5.26
Wayne	5089	Clyde-Savannah, Part I	4.55
Cortland	881	Blodgetts Mills-Cortland	1.79
Cortland	882	Scott-Spafford	2.55
Cortland	5075	Cortland City-Clinton Ave.	0.53

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the offices of Division Engineer Spencer J. Stewart, Columbus Hall, Poughkeepsie, N. Y., for the road in Dutchess County; at the office of Division Engineer Harry P. Willis, Humane Building, Albany, N. Y., for roads in the counties of Albany, Clinton, Columbia, Greene, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren and Washington; also at the office of Division Engineer Guy H. Miller, Cleveland Building, Watertown, N. Y., for roads in the counties of Franklin, Jefferson, Hamilton, Lewis, Oneida and St. Lawrence; also at the offices of Division Engineer Fred W. Sarr, So. Clinton and West Jefferson Streets, Syracuse N. Y., for roads in the counties of Cayuga, Chenango, Cortland, Madison, Onondaga, Ontario, Oswego, Seneca and Wayne; also at the office of Division Engineer M. W. Wilbur, 423 Cutler Bldg., Rochester, N. Y., for roads in the counties of Cattaraugus, Chautauqua and Genesee; and also at the office of Division Engineer Paul McLoud, Press Building, Binghamton, for roads in the counties of Broome and Otsego.

The especial attention of bidders is called to "Information for Proposers" on pages 6 and 7 of the specifications.

Proposals for each road must be presented in a separate sealed envelope endorsed on the outside with the name and number of the road for which the proposal is made.

Each proposal must be accompanied by a New York draft or certified check payable to the order of the State Commission of Highways for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies. This draft or check will be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for fifty per cent. of the amount of the contract; such bond to be executed by a Surety Company to be approved by the Commission, or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

S. PERCY HOOKER, Chairman
T. WARREN ALLEN,
ROBERT EARL,
Commissioners.

SEWER CONSTRUCTION.

Louisville, Ky.

Sealed proposals for the construction of the "Fourth Street," "28th Street" and "Cedar Street" Sewers, Contracts No. 78, No. 79 and No. 80, will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., at 12 o'clock [illegible] March 24, 1911.

The work of the several contracts, briefly stated, is as follows:

"Fourth St. Sewer"—565 feet [illegible] pipe sewer, in trench from [illegible] 12 feet deep, and 35 cu. yds. of concrete.

"28th St. Sewer"—1,280 feet of pipe sewer from 15" to 24" in diameter in trench from 6 to 12 ft. [illegible] and about 90 cu. yds. of concrete.

"Cedar St. Sewer"—710 feet of concrete sewer, in trench from [illegible] to 14 ft. deep, and about 375 cu. yds. of concrete.

Plans and specifications may be seen at the office of the Commissioners and at the office of Metcalf & Eddy, [illegible] Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Fourth St. Sewer" (or "28th St. Sewer" or "Cedar St. Sewer") and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by certified check for at least seven (7) per cent. of the total amount of the bid or a "Bidder's Bond," as described in the form of proposal.

P. L. ATHERTON,
Chairman.

CHAS. P. WEAVER, Secy. and Treas.
J. B. F. BREED, Chief Engineer.

SEWERS.

Stamford, Conn.

Sealed proposals will be received by the City Clerk of the City of Stamford at his office in the Town Hall of said City until 8 p. m., March 20, 1911.

Said proposals to cover the furnishing of materials and the performance of labor required for the construction of certain sewers in accordance with plans and specifications for said work.

Plans may be seen and copies of the specifications may be had by calling on said City Clerk at said office and depositing Ten Dollars for which his receipt may be had and which sum of money will be returned upon the return of the specifications in good order to said City Clerk.

The proposed work consists approximately of about 29,500 feet of vitrified pipe sewers, 8 inches to 18 inches, laid complete with manholes and flushtanks, about one thousand feet of iron pipe sewer and forcemain 8-inch to 18 inch.

Each bid must be accompanied by a certified check for $1,500 as a guarantee that the bidder, if his bid be accepted, will enter into contract and execute the required bond.

Each bid must be made on blank forms to be obtained from the City Clerk.

All bids must be enclosed in sealed envelopes, marked "Proposal for the Construction of the West Side Sewer," and each must be enclosed in a second sealed envelope addressed to The Board of Common Council, Stamford, Fairfield Co., Conn.

The City reserves the right to reject any or all bids.

Dated at the City of Stamford, Connecticut, this 4th day of March, 1911.

JOSEPH H. PROVOST,
City Clerk.

EARTH DAM.—Department of the Interior, United States Reclamation Service, Washington, D. C., February 25, 1911.—Sealed proposals will be received at the office of the U. S. Reclamation Service, North Yakima, Washington, until 10 o'clock a. m., April 15, 1911, for the building of Kachess dam and accessory structures near Easton, Washington. The work involves the excavation of approximately 345,000 cubic yards of material, the placing of about 240,000 cubic yards of embankment, 15,000 cubic yards of rip rap and paving, 8,000 cubic yards of concrete, and 300,000 pounds of reinforcing steel, and other items necessary to complete the work. For particulars address the United States Reclamation Service, Washington, D. C., or North Yakima, Washington. R. A. BALLINGER, Secretary.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 20, 1911.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 20th day of March, 1911, and then opened, for a low-pressure steam-heating apparatus in the United States Post Office at Plattsmouth, Neb., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent of Construction, Plattsmouth, Neb., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

STREET IMPROVEMENTS.

Portsmouth, Va.

Sealed proposals will be received at office of L. P. Slater, City Clerk, until 12 o'clock noon, March 20, 1911, for the improvement of London Street, from Water to Hatton Streets; Dinwiddie Street, from Boulevard to a point about 135 feet south of Clifford Street; Effingham Street, from Glasgow to County Streets, parked in the center, with roadway each side; Harrison Street, from Washington to Fourth Streets; Fifth Street, from Harrison to Fayette Streets; Fayette Street, from Fifth Street to West Gate of Navy Yard; First Street, from Causeway to Navy Yard Gate; Hatton Street, from London Street to Naval Avenue; Naval Avenue, from Hatton Street to Linden Avenue; Riverview Avenue, from Naval Avenue to North end; Ann Street, from Hatton to Owens Street, and from Hatton to Chestnut Streets; Villa Street, from West Park View bridge to Hospital Gate; and Green Street, from North Street to the line of U. S. Naval Hospital property, in the City of Portsmouth, Va.

An approximate schedule of the work is shown on the blank form of proposal attached to the specifications, which may be obtained on application to the City Engineer.

Bids made out in full on the blank form of proposal attached to the specifications must be enclosed in a sealed envelope and addressed to the Street Committee and marked "Proposals for the Improvement of Streets, Portsmouth, Va." Blank spaces on bid must be carefully and accurately filled.

Bids will be received for the following classes of pavement:

1st. Sheet Asphalt, on concrete foundation, with and without brick gutters, per sq. yd.

Street railway track paving on above, per sq. yd.

2d. Vitrified Brick, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

3d. Vitrified Brick, on sand and gravel foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

4th. Bitulithic, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

5th. Filbertine, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

6th. Granite Curbing, per lineal ft.

7th. Old broken Curbing taken up and replaced by Curbing furnished and delivered by the City, per lineal ft.

8th. Concrete Curbing, per lineal ft.

Bids must be made out for completed work as per schedule; no partial bids will be considered.

A certified check on some solvent local bank must accompany each bid to the amount of a sum equal to two and one-half per cent (2½%) of bid, and under the conditions expressed in the blank form of proposal.

The right to reject any or all bids or proposals is specially reserved. The right is also specially reserved to accept such bids as, in the opinion of the Street Committee, propose the use of the best materials, and promise the best and most lasting results, regardless of the prices named therein.

E. B. HAWKS,
Chairman Street Committee, Common Council.
S. T. MONTAGUE,
Chairman Street Committee, Board of Aldermen.
V. O. CASSELL, JR.,
City Engineer.

HYDRANTS, VALVES AND SUPPLIES.

Lewistown, Montana, Feb. 24, 1911.

Bids will be received by the City of Lewistown, Montana, up to 8 o'clock p. m., March 24, 1911, for the furnishing of Fire Hydrants, Valves, Lead, Jute and other materials.

Specifications may be inspected at the office of Engineering News; also for specifications and blank form of bid, or other information, address

P. A. CHASE, City Clerk, or
O. F. WASMANSDORFF, City Engineer.
9-4t

STORM-WATER DRAINS.

OFFICE OF THE SEWERAGE COMMISSION OF THE CITY OF BALTIMORE.

Baltimore, Md., Feb. 20, 1911.

Sealed Proposals, indorsed "Proposal for Building Storm-Water Drains, Storm-Water Contract No. 12"; addressed to the Board of Awards of Baltimore City, will be received at the office of Mr. J. Sewell Thomas, City Register, City Hall, Baltimore, Md., until 11 A. M., Wednesday, March 15, 1911, for building storm-water drains, Storm Water Contract No. 12, as shown on plans on file in the office of Mr. Calvin W. Hendrick, Chief Engineer of the Sewerage Commission.

Specifications and plans can be obtained upon application at the office of the Sewerage Commission, Room 904, American Building, Baltimore, Md., on and after Feb. 27, 1911. A charge of $5.00 will be made for each specification and blueprints. This charge will be refunded upon the return, on or before March 15, 1911, of the unused specifications and plans in good condition, or upon the return of the General Specifications and plans in case a bid is submitted.

A certified check of the bidder, for the amount of $3,000, on a Clearing-House Bank, made payable to the order of the Mayor and City Council of Baltimore, will be required to be deposited with each bid.

APPROXIMATE QUANTITIES.

1,270 ft. 87-in. Horse Shoe Drain.
450 ft. 14' × 7' 6" Rectangular Drain.
28 ft. 96-in. Horse Shoe Drain.
1,640 ft. 36-in. to 30-in. Concrete and Brick Drains.
4,100 ft. 24-in. to 15-in. T. C. Pipe Drains.
1,690 ft. Inlet Connections.
71 Inlets.
39 Manholes.
2,875 cu. yds. Concrete.
230 cu. yds. Brick Masonry.
110,000 lbs. Steel Reinforcement.

The successful bidder on this contract will be required to give bond and comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any and all bids.

By order of the Sewerage Commission.

W. D. PLATT,
Chairman, Pro tem.
HARRY W. RODGERS, Secretary.
J. BARRY MAHOOL,
President, Board of Awards.

SEWERAGE AND SEWAGE DISPOSAL.

Bristol, Pa.

Sealed proposals, addressed to the Borough Council of the Borough of Bristol, Bucks County, Pennsylvania, marked Proposals for "Sewerage System," will be received until 12 o'clock noon, March 20th, 1911, for furnishing materials and constructing a complete system of sewerage and disposal plant, comprising the following:

The system consists of approximately ten (10) miles of sewers, 8 inches to 24 inches in diameter.

Pump House.
Engines.
Pumps.
Pump Well and Disposal Works.

Bids will be received for the entire work or any portion thereof.

Plans may be seen and specifications and blank forms of proposal procured by applying to the office of the Borough Surveyor, No. 209 Radcliffe Street, Borough of Bristol, Bucks County, Penna.

A certified check for $500, payable to the order of the Borough Clerk of Bristol, Pa., must accompany each bid.

The Borough Council of the Borough of Bristol reserves the right to reject any or all bids or to accept any bid for the whole or any portion of the work.

LOUIS SPRING,
GUSTAV A. RATHKE,
DR. A. S. WILSON,
GEO. W. STRAUSER,
JOSEPH R. GRUNDY,
WM. H. BOARDMAN, Engineer, Chairman, Committee.
426 Walnut St.,
Philadelphia, Pa.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Philadelphia, Pa., until 12 o'clock m., March 15, 1911, and then opened, for rebuilding wharves, retaining walls, etc., at Edgemoor Lighthouse Depot, Delaware, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to Commander H. O. STICKNEY, U. S. Navy, Inspector.

BRIDGES.

Ellicott, N. Y.

Subject to the approval of the Town Board of the Town of Ellicott, Chautauqua County, New York, sealed proposals, addressed to the Town Superintendent of said Town, and endorsed, "Proposals for Building Bridges in the Town of Ellicott," will be received by the undersigned Town Superintendent at the office of the Town Clerk, in the Village of Falconer, until 2 o'clock P. M., on the 15th day of March, 1911, and at that time and place will be publicly opened and read. The bridges for which proposals are to be received are an iron bridge, 20 ft. wide having a span of 100 ft. over the Cassadaga Creek, in said Town, on the main road leading from Falconer to Kennedy, and two concrete bridges, each 52 ft. wide on South Work St., in said Village of Falconer, one over the race leading to the factory of the American Manufacturing Concern, having a span of 30 ft., and the other over the Outlet of Chautauqua Lake, having two spans of 35 ft. each, all in accordance with the directions and the plans and specifications approved by the Chautauqua County Superintendent of Highways, and now on file with said Town Clerk.

Proposal sheets may be had at said Town Clerk's Office. A certified check for $250.00 must accompany the proposal for each contract, and a Surety Company bond for 50 per cent. of the contract price will be required of each of the contractors. Said Town Board reserves the right to reject any and all bids.

SAMUEL ELY,
Town Superintendent.

Dated at Falconer, New York, Feb. 23, 1911.

WATER-WORKS.

Westbury, N. Y.

Sealed proposals will be received by the Board of Water Commissioners, Westbury, N. Y., until 11 o'clock a. m., March 20, 1911, then publicly opened and read.

Work will embrace furnishing approximately 630 tons cast-iron B. and S. pipe, 23 tons special castings, 100,000 gallon tank and steel tower 164 ft. high, 76 double-nozzle fire hydrants, 58 gate valves and boxes, two deep well triplex power pumps, 1,000,000 gallons capacity; two 35-horse-power multiple cylinder vertical gas engines with gas producer, concrete pumping station, and laying about seven miles of pipe, and drilling two 12-inch wells.

Plans will be on file and may be obtained from the engineer on receipt of five ($5.00) dollars, or may be seen at the office of the engineer, or at the office of Thomas J. McCord, at Westbury, N. Y.

Specifications will be on file at the office of the engineer and at the office of Thomas J. McCord, and will be forwarded free upon application.

All inquiries must be addressed to the engineer.

All bids must be accompanied by a certified check or its equivalent for not less than 5% of the total amount bid.

The right is reserved to reject any or all bids, or accept any bid or bids, or any portion of any bid or bids.

BOARD OF WATER COMMISSIONERS,
Thomas J. McCord,
George W. Lascelle,
John Scally.

Engineer, WALTER E. SEXTON, Mineola, N. Y.

WATER MAINS.

Boone, Iowa.

Plans and specifications for the work of constructing Water Mains from the Des Moines River pumping station to the Boone City Water Works pumping station, together with suction mains at the River station are now on file in the offices of the City Engineer and City Clerk of the City of Boone, Iowa.

Bids for the work of constructing said mains will be received in the office of the City Clerk until 7.30 P. M., March eighth, 1911.

Certified checks in the sum of $500.00 will be required with bids submitted, and bonds in sum of $13,000.00 will be required of the successful bidder.

The City reserves the right to reject any or all bids.

Signed: K. C. KASTBERG,
City Engineer.
OTTO HILS, City Clerk.

ELECTRIC GENERATING PLANT, ETC.

Poughkeepsie, N. Y.

Sealed proposals for Electric Generating Plant, and for Feeders and Transformers, Series Outside Lighting, Motors, and Power House Lighting, at Hudson River State Hospital, Poughkeepsie, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., until 3 o'clock P. M., on Wednesday, March 15th, 1911, when they will be opened and read publicly.

Proposals shall be accompanied by certified check in the sum of $1,000 for Electric Generating Plant, and $1,000 for Feeders and Transformers, etc., and the contractor to whom either award is made will be required to furnish Surety Company's bond in the sum of $10,000 for Electric Generating Plant, and $10,000 for Feeders, Transformers, etc., within thirty days after notice of award of contract and in accordance with the terms of specification No. 1408. The right is reserved to reject any or all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Hudson River State Hospital, Poughkeepsie, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

T. E. McGARR,
Secretary, State Com. in Lunacy.
Dated Albany, N. Y., Feb. 23, 1911.

STORAGE DAM.

Salt Lake City, Utah.

Sealed Proposals will be received by the Pacific Reclamation Company, at the office of their Consulting Engineer, George M. Bacon, 159 Pierpont Ave., Salt Lake City, Utah, until noon of Saturday, April 15, 1911, for the construction of a Storage Dam about fifteen miles North of Wells, Nevada.

The dam will be of earth and rock fill with a reinforced concrete facing on the up stream side. The principal quantities are:

20,000 cu. yds. earth excavation.
3,000 cu. yds. rock excavation.
71,000 cu. yds. earth embankment.
6,000 cu. yds. dry rubble wall.
1,250 cu. yds. Portland Cement concrete.
85,000 lbs. Steel reinforcing.

A certified check for $2,500.00 must accompany the bid, and a bond of $15,000 will be required for the faithful performance of the contract.

Form of Proposal, Contract and Specifications may be had by applying to George M. Bacon, 159 Pierpont Ave., Salt Lake City, Utah.

PACIFIC RECLAMATION COMPANY,
Joseph Gutman, President.
George M. Bacon, Consulting Engineer.

RAIL AND TIES.

CITY OF TORONTO CIVIC CAR LINES.

Toronto, Ont.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, Canada, up to noon on Tuesday, April 4, 1911, for delivery of Thirteen hundred and forty (1,340) tons of open-hearth steel rail, 80-lb. section, also thirty thousand (30,000) untreated wood ties, white cedar preferred, although other woods will be considered.

Envelopes containing tender must be plainly marked on the outside as to contents.

Specifications and forms of tender may be obtained upon application to the Office of the City Engineer, Toronto.

The lowest or any tender not necessarily accepted.

(G. R. GEARY, Mayor.)
Chairman Board of Control.
City Hall, Toronto, Feb. 23, 1911.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 16, 1911.—Sealed proposals will be received in this office until 3 o'clock P. M. on the 30th day of March, 1911, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Alliance, Ohio, in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Alliance, Ohio, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

WATER PIPE, ETC.

OFFICE BOARD OF PUBLIC WORKS.
Grand Rapids, Mich., Feb. 23, 1911.

Sealed proposals will be received at the office of the Board until March 9, 1911, at 8.00 p. m., for furnishing Cast Iron Water Pipe, Specials, Valves and Hydrants for the City of Grand Rapids, Michigan, for the year ending December 31, 1911, according to the plans and specifications on file at the office of the Board.

Proposals not made in duplicate will be rejected.

The Board reserves the right to reject any or all bids.

Each bidder shall deposit with his proposal a certified check or certificate of deposit payable to the order of Henry J. Klevorn, President, in the sum of 5 per cent. of his proposal, but not less than $50.00, to be forfeited to the City of Grand Rapids in case he shall fail to enter into contract, in accordance with his proposal, should his proposal be accepted by the Board of Public Works.

All proposals must be made upon blanks that will be furnished upon application at the office of the Board. By order of the Board.

HENRY J. KLEVORN,
President.
Attest: SAMUEL A. FRESHNEY,
Secretary and General Manager.

BANK BUILDING.

Norman, Okla.

Notice is hereby given, that sealed proposals for the furnishing of material, and the performance of all labor required for the erection and completion of a brick and reinforced concrete bank building located at Norman, Oklahoma, will be received at the office of Bailey and Bailey, Architects, 901 Colcord Building, Oklahoma, Okla., until 10 o'clock A. M., Monday, March 20, 1911.

Bids are to be addressed to Bailey and Bailey, Architects, and endorsed Proposal for the erection of The First State Bank of Norman, Oklahoma; and shall be accompanied by a Certified Check made payable to the First State Bank of Norman for (5) five per cent. of the amount of the Bid.

Contractors may secure a set of plans and specifications from the above Architects, by making a deposit of $25.00, to guarantee the return of same

BAILEY & BAILEY, Architects.

PAVING MARKET ALLEY.

Meadville, Pa.

The Select and Common Councils of the City of Meadville, Pa., will receive sealed bids until 8 o'clock p. m., Wednesday, March 15, 1911, for the grading, curbing and paving of Market Alley from the east line of Market Street to the west line of Park Ave.

Plans and specifications may be obtained at the City Engineer's office. Bond or certified check for $50.00 must accompany bid. City reserves the right to reject any and all bids.

Fred C. KIEBORT,
City Clerk.

MATERIAL FOR WATER-WORKS SYSTEM.

San Augustine, Texas.

Bids will be received by the Mayor and City Council at San Augustine, Texas, and by them publicly opened on Tuesday, March 21st, 1911, for the purchase by the city of all material required in the construction of a water-works system, viz., Electric Motor or Gasoline Engine, Triplex Pump and Steam Pumps, Boilers, Heater, Water-works Pipe, Valves and Hydrants, Tank and Tower. Also for drilling of a deep well.

Quantities and specifications may be had by addressing O'NEIL ENGINEERING CO., Constructing and Supervising Engineers, 1503-8 Praetorian Bldg., Dallas, Texas.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 25, 1911.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 10th day of April, 1911, and then opened, for the construction, complete (including plumbing, gaspiping, heating apparatus, electric conduits and wiring), of the United States Post Office at Connellsville, Pa., in accordance with drawings and specifications, copies of which may be obtained from the Custodian of site at Connellsville, Pa., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

CATSKILL AQUEDUCT.

CONTRACT 58.

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, seventh floor, 165 Broadway, New York, until 11 A. M. on Tuesday, March 21, 1911, for Contract 58, for furnishing and installing a complete drainage equipment for unwatering the shafts and tunnel of the Rondout siphon of the Catskill aqueduct. The work is located near High Falls station on the New York, Ontario and Western Railroad, in the town of Marbletown, Ulster County, New York, about 10½ miles from Kingston.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, and pamphlets of contract drawings can be obtained at the above address by depositing the sum of five dollars ($5) for each pamphlet. For further particulars see Information for Bidders.

CHARLES STRAUSS, President;
CHARLES N. CHADWICK,
JOHN F. GALVIN,
Commissioners of the Board of Water Supply.

PAVEMENT.

Memphis, Tenn.

Bids will be received by the City of Memphis for the construction of approximately eighty-five hundred (8,500) sq. yds. of vitrified brick pavement; eighty thousand (80,000) sq. yds. of tar macadam, and ten thousand (10,000) sq. yds. of wood block pavements. Bids to be in hands of the City Clerk at noon, Tuesday, March 14.

J. H. WEATHERFORD,
City Engr.

CAST IRON WATER PIPE.

Lewistown, Montana, Feb. 24, 1911.

Bids will be received by the City of Lewistown, Montana, up to 8 o'clock p. m., March 24, 1911, for the furnishing of approximately 50,000 feet of cast-iron pipe of 130-lbs. pressure.

Specifications may be inspected at the office of Engineering News; also for specifications and blank form of bid, or other information, address

P. A. CHASE, City Clerk, or
O. F. WASMANSDORFF, City Engineer.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 20, 1911.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 20th day of March, 1911, and then opened, for a conduit and wiring system in the U. S. Post Office at Plattsmouth, Nebraska, in accordance with drawing and specification, copies of which may be had at this office, or at the office of the Superintendent, Plattsmouth, Neb., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 20, 1911.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 20th day of March, 1911, and then opened, for a plumbing and drainage system at the U. S. Post Office, Plattsmouth, Neb., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent of Construction at Plattsmouth, Neb., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., February 20, 1911.—Sealed proposals for dredging in Camden Harbor, Maine, will be received at this office until 12 m., March 23, 1911, and then publicly opened. Information on application. W. E. Craighill, Lieut.-Col. Engrs.

U. S. ENGINEER OFFICE, Wilmington, Del., Feb. 28, 1911.—Sealed proposals for dredging Cat River and Bogue Bay, Va., will be received here until 11 a. m., March 30, 1911, and then publicly opened. Information on application. R. R. RAYMOND, Maj. Engrs.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 108.

PLAIN LETTERING

By PROF. HENRY S. JACOBY

Most comprehensive book on this subject, Contains standards of U. S. Engineer Corps, U. S. Geological and Geodetic Surveys, and Mississippi River Commission.
Cloth, 10 x 7 inches: 82 pages. Price $3.00.

Situations Wanted

Civil Engineers.

YOUNG graduate civil engineer, age 24, having had over a year's experience in concrete work, desires position with construction or contracting company. Address "Z. C. 9," Engineering News, New York. 9-3t

CIVIL engineer, graduate, 34; experience: general surveys, street, sewer, reinforced concrete construction; good reference; $100 per month. Address "A. C. 9," Engineering News, New York. 9-1t

GRADUATE civil engineer, two years' railroad and sewer construction work; good draftsman. Address "L. B. 9," Engineering News, New York. 9-1t

GRADUATE civil engineer (24), married, 2½ years' experience as chief of party on topographic, location and construction work; location immaterial. Address "M. B. 9," Engineering News, New York. 9-1t

CIVIL engineer, recent graduate, desires position with engineering or contracting firm, with opportunity for experience; good instrumentman, neat draftsman, able to assist in designing. Address "P. B. 9," Engineering News, New York. 9-2t

CIVIL engineer, technical graduate, 1 year's experience, wants position with contractor; some experience in that line; anything that offers opportunities of advancement. Address "R. B. 9," Engineering News, New York. 9-1t

CIVIL ENGINEER, Assoc. M. A. Soc. C. E., college graduate, eleven years' experience in field, office and construction work; experienced in subway, tunnel and railroad construction, open for engagement, resident engineer or superintendent. Address "D. C. 9," Engineering News, New York. 9-12t

GRADUATE ENGINEER (30), experienced designing plain and reinforced concrete dams, retaining walls, culverts, heavy steel, making hydraulic computations, estimates, etc.; wants position with consulting engineer or contractor. Address "B. C. 9," Engineering News, New York. 9-3t

Bridge and Structural Engineers.

STRUCTURAL Engineer, graduate, 28, American, four years experience designing, industrial buildings, underground railways, timber, steel, reinforced concrete. At present employed, wants position with up-to-date concern in N. Y. City where ability and industry will count. Initial salary, $135; New York references. Address "C. C. 9," Engineering News, New York. 9-1t

Draftsmen.

YOUNG engineering student (19), desires position as draftsman's helper with engineering firm. Address A. G. APSEL, 574 Hamburg Ave., Brooklyn, N. Y. 9-4t

YOUNG man wishes position as draftsman; neat topographical draftsman and fine letterer; can use transit and level; location immaterial; salary reasonable. Address "H. B. 9," Engineering News, New York. 9-1t

STRUCTURAL draftsman, thoroughly competent, technical education, neat and accurate; New York City; salary, $25.00. Address "K. B. 9," Engineering News, New York. 9-1t

WANTED—By lady, position as draftsman in engineer's office; salary, moderate. Address "S. C. 9," Engineering News, New York. 9-1t

Draftsman

DRAFTSMAN (age 31), technically educated, with ten years' experience on machinery and general mill construction; good reliable man. Address "F. C. 9," Engineering News, New York. 9-1t

Superintendents, Misc., etc.

WANTED—Position as assistant to manufacturing superintendent by young man of ability and resourcefulness; have had five years' thorough, practical experience in various lines, and partly completed mechanical engineering course, Purdue University; speaks German, is tactful and capable of responsibility and trust. Address "O. B. 9," Engineering News, New York. 9-1t

Contractor's Manager

FIFTEEN YEARS' EXPERIENCE IN HEAVY CONSTRUCTION; DREDGING, STEAM SHOVELS, REINFORCED CONCRETE, DEEP FOUNDATIONS, POWER PLANTS, INSTALLING MACHINERY; JUST COMPLETED A LARGE STONE CRUSHING PLANT; EASTERN INTERVIEW. ADDRESS "G. A. 9," ENGINEERING NEWS, NEW YORK.

Situations Open

WANTED—Several first-class detailers and checkers on bridge and mill building work. State definitely in reply amount and kind of experience, education, age, salary and earliest date available. LACKAWANNA BRIDGE CO., Buffalo, N. Y. 9-2t

POSITION vacant for two thoroughly competent instrument men who can also do office work, making maps and computations, Tennessee survey. [illegible] men living within 150 miles Brooklyn need apply. Give detailed experience and training. Submit copies only of references. Only letters of apparently acceptable applicants will be answered. Address "X. C. 9," Engineering News, New York. 9-1t

SUPERINTENDENT Hydro-Electric Plant wanted to take charge of plant developing 1,000 HP. Applicant must have thorough technical knowledge and experience in the installation and operation of hydro-electric plants and transmission lines. State age, experience, salary and references. Address "H. A. 8," Engineering News, New York. 9-2t

WANTED—A graduate civil engineer of three or four years' experience in municipal work. Must be a ready and accurate computer and a neat draftsman. Address JOHN M. FARLEY, White Plains, N. Y. 9-1t

FOR SALE

FOR SALE.
One (12) ton second-hand
Kelly Springfield Road Roller

Reason for selling roller, too heavy for park purposes. Address PLEASURE DRIVEWAY & PARK DISTRICT, Peoria, Illinois. 9-2t

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Complete Field Outfit

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Address "E. C. 9," Engineering News, New York. 9-1t

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